THE INFLUENCE OF SOCIAL PROBLEM-SOLVING TRAINING IN SCHOOL ON FOURTH-GRADERS' HOME BEHAVIOR

By Douglas D. Perkins,

February, 1987

A thesis in the Department of Psychology submitted to the faculty of the Graduate School of arts and Sciences in partial fulfillment of the requirements for the degree of Master of Arts in Community Psychology at New York University.

Marybeth Shinn, Research Advisor

The author gratefully acknowledges the guidance of Prof. Shinn and the collaboration of Ms. Kathy Ivans and Ms. Yah-Jong Chou in this research. I would also like to take this opportunity to thank Lila Belanoff, Coordinator of Prevention Services for the Westchester County Department of Meantal Health, who was the program manager, Ellis Gesten of the University of South Florida, who was the program consultant/trainer, and Roger Weissberg, Yale University, who provided some technical assistance regarding IPS measures developed with Gesten and others at the University of Rochester. The author was supported during this study by a fellowship of the National Institute of Mental Health for Graduate Research Training.

RUNNING HEAD: FOURTH-GRADE PROBLEM-SOLVING AND HOME BEHAVIOR

Abstract

School-based interpersonal problem-solving (IPS) training has been widely advanced as a potentially valuable strategy for the primary prevention of adjustment problems among elementary school children. The purpose of this thesis is to evaluate the effects of IPS training in two schools on 118 fourth-grade children's ability to cope with stressful interpersonal situations, and on their overall behavioral adjustment, as exhibited at home. This study is one of the first IPS evaluations conducted independently of those who designed or implemented the intervention. This is the first study, furthermore, to examine the generalization of schooltrained skills to, and their effects on, behavior in settings outside of school. The Child Interpersonal Problem Solving Rating Scale is offered here as a general measure of uniquely IPS behavior. Subjects exposed to IPS training failed to show significantly more improved adjustment or problem-solving behavior at home than did control subjects. Correlations between IPS and adjustment at home and across school boundaries, however, reveal some important sex differences as well as other complexities. On the positive side, variables that have received little previous attention, such as passive means generation, feelings recognition, the types of consequential thinking (prosocial versus antisocial), variants of alternative solutions, and the face-valid IPS self report, were more strongly related to home behavior than alternative solution or active means generation. However, there appear to be several unexpectedly negative relationships as well. It is concluded that IPS theory will require considerably greater specificity and refinement before consistent programmatic achievements can be attained.

Keywords: child social problem-solving skills training, interpersonal cognitive problem solving, school-based primary prevention evaluation

INTRODUCTION

Interpersonal problem-solving (IPS)¹ skills have been found to be related to emotional adjustment in a variety of clinical populations, particularly among children (Spivack, Platt & Shure, 1976). This finding, along with evidence suggesting that socially maladjusted children may be particularly vulnerable to emotional disorder later in life (Cowen, Pederson, Babigian, Izzo, & Trost, 1973), has helped promote early IPS training as a promising paradigm to prevent the ill effects of developmental stress on normal children (Shure & Spivack, 1978). The positive, "competence-building" orientation of IPS has made it especially popular among community psychologists, who generally try to avoid deficit labelling, whether they work with impaired or normal populations (Cowen, 1980).

Although the problem solving approach has received a great deal of research and programmatic attention, clear and consistent results remain elusive. In particular, while children trained in IPS skills do well in hypothetical (interview) and simulated problem solving situations, the extent to which trained IPS skills generalize to behavior and adjustment outside the classroom and school has yet to be fully investigated (Weissberg & Allen, 1987?). In addition, previous evaluations of programs have generally confounded the evaluator's role with those of program trainer, supervisor, and/or teacher (cf., Elardo & Caldwell, 1979). Furthermore, too few IPS studies have considered possible sex differences (cf., McKim, Weissberg, Cowen, Gesten, & Rapkin, 1982; Elias, Gara, Ubriaco, Rothbaum, Clabby, & Schuyler, 1986) which would seem particularly important among latency-aged and early adolescent children. Finally, implementation has been cited as a key variable in IPS program success (Weissberg, 1985). Yet, while several studies have compared training "dosage" levels within one setting, treatment "contamination" must generally be considered a possibility

1

throughout a given setting. The present study is an attempt to remedy, to some degree, all of these concerns while concentrating on the first in assessing the effects of IPS training in fourth grade on parents' ratings of children's overall social adjustment and coping (problem-solving) behavior.

LITERATURE REVIEW

The Hahnemann Studies

Although others had observed a theoretical connection between IPS skills and psychological well-being (Jahoda, 1958), the current IPS research paradigm grew out of the work of Spivack and Levine (see, for example, Spivack & Levine, 1963) at the Devereux Foundation. They discovered that disturbed adolescents exhibited much more difficulty than normals in generating step-by-step means toward solving everyday interpersonal problems and in the capacity to view such problems from someone else's point of view (Spivack, Platt & Shure, 1976). The relationship between adjustment and problem-solving ability was later explored in a series of studies under the direction of Spivack and Shure at the Hahnemann Medical College Mental Health/Mental Retardation Center in Philadelphia. For almost twenty years, the Hahnemann group has refined and tested the IPS-adjustment relationship in a wide variety of "at risk" groups.

Specifically, Shure and Spivack (1970) found that alternative thinking (the capacity to explore alternative solutions to "real-life" interpersonal problems) discriminated groups of normal, lower and middle-class inner-city fifth-graders differing in adjustment level. Shure, Spivack and Jaeger (1971) found a significant correlation between alternative thinking, as measured by the Preschool Interpersonal Problem-Solving (PIPS) scale, and behavioral adjustment, this time among 62 disadvantaged black preschool (Head Start) children. Shure and Spivack (1972) also found that, regardless of socioeconomic status or intellectual functioning, disturbed 10-to-12-year-old children expressed both fewer elements of meansends thinking (the ability to recognize potential obstacles and map out a realistic behavioral strategy to achieve a particular goal) and stories that were more limited to impulsive and aggressive means than did their normal counterparts.

This line of research has revealed other possible elements of IPS ability, including consequential thinking (the ability to foresee the possible consequences of, or what might come <u>after</u>, alternative solutions to a given interpersonal problem), causal thinking (the capacity to comprehend and explain the etiology of, or what came <u>before</u> and might have caused, a problem) and interpersonal sensitivity (i.e., to others' perceptions, needs, feelings, and intentions) (Shure, 1979; Spivack & Shure, 1974). In addition, these researchers have begun to explore the sex-relevant adjustment behaviors associated with IPS ability in ten-year-olds (Shure, 1980).

Inspired by associations between some of the above IPS skills and adjustment, Shure, Spivack and their colleagues have also overseen the problem-solving training of such disparate populations as disadvantaged, urban fifth graders, foster adolescents, mother-child dyads, educable mentally retarded, hyperactive children, alcoholic adults, short-term inpatients, over 900 inner-city nursery and kindergarten children, and of such care <u>providers</u> as teachers, welfare workers, and counselors (Spivack & Shure, 1985). Their classroombased intervention consisted of 46 to 50 daily, sequential lessons and activities conducted by the teacher and lasting from 20-to-30-minutes each. Evaluations of these interventions have rendered consistently positive results, with trainees generally improving relative to controls in both IPS skills and adjustment (Shure, 1979; Shure & Spivack, 1978, 1979, 1982; Shure,

3

Spivack & Gordon, 1972). These early successes helped IPS-based research and interventions proliferate widely in the years that followed.

There have been several limitations to the Hahnemann research program, including a lack of long-term follow-up assessments and only anecdotal evidence regarding the consequences of IPS training beyond the classroom (see Shure, 1977; Spivack & Shure, 1974). Another important concern is the generalizability of the IPS elements, and their relationships to adjustment, across populations. The developmental dependency of IPS effects requires a great deal more research attention. Shure, Spivack and Jaeger (1971), for example, found no significant correlation between causal or consequential thinking and adjustment among four-to-five-year-olds. <u>Spontaneous</u> causal thinking has been shown to differentiate normal and disturbed adults (Platt & Spivack, 1974) but not adolescents (Larcen, Spivack & Shure, 1972). In general, however, by focusing more on the similarities between groups than the dissimilarities, the Hahnemann group may have overemphasized the robustness of the phenomenon. Furthermore, they have not always accounted for the potential influence of varying levels of aptitude on both skills and their acquisition.

The Rochester Studies

The only program that has implemented IPS training and research on a similar scope as the Hahnemann group has been conducted by Gesten, Weissberg and their colleagues. Their work, while borrowing substantially from Spivack and Shure, evolved out of the previous school-based interventions of the University of Rochester's Primary Mental Health Project. After a long process of program revisions based on formal evaluations and feedback from program personnel, this group has contributed important refinements of IPS theory (e.g.,

4

feeling and problem identification skills), training methods (e.g., explicit tailoring of curricula to urban vs. suburban populations), and evaluation methods (e.g., a behavioral problem-solving test; Gesten, Flores de Apodaca, Rains, Weissberg & Cowen, 1979).

The various findings from this series of projects, which are the ancestors of the present program, have been mixed, however. In their first intervention, a one-year follow-up assessment of trained second and third grade suburban children demonstrated some durability of positive experimental effects on adjustment. Essentially no relationship was found, however, between problem solving and adjustment (Gesten, Rains, Rapkin, Weissberg, Flores de Apodaca, Cowen & Bowen, 1982).

The next evaluation was not much more positive. Weissberg, Gesten, Rapkin, Cowen, Davidson, Flores de Apodaca and McKim (1981) expanded Gesten et al.'s (1982) program from 17 lessons over a period of nine weeks to 52 lessons over four months. Despite positive effects of training of both suburban and urban children on their response to hypothetical and simulated problem situations, only the suburban sample improved on teacher-rated adjustment with the urban experimental group actually declining. Whether the problem with the urban half of the program was a matter of implementation (Weissberg & Allen, 1987?) or of population differences (McKim, Weissberg, Cowen, Gesten, & Rapkin, 1982), it suggests that poor, inner-city children who are most in need of competence-building strategies may benefit the least from an IPS program. This result contrasts sharply with Siegal, Platt and Spivack's (1973) claims that the alternative thinking-adjustment relationship holds cross-culturally and for different levels of educational and psychological sophistication.

Weissberg, Gesten, Carnrike, Toro, Rapkin, Davidson and Cowen (1981) tried to address the special needs of urban teachers and children (e.g., conflict resolution strategies, the limiting of aggressive solutions, and informal teacher-child IPS dialoguing) when they designed the next IPS elementary school intervention. In evaluating this program, they found that trained second to fourth grade children showed greater improvement than did controls on similar problem-solving measures and the same adjustment measure as those used in the present study. With correlations between the two domains remaining elusive, however, those investigators also stressed the necessity of improving assessment procedures and, in particular, not relying only on teacher ratings.

Other Studies

Perhaps because of the scale of the Hahnemann and Rochester projects, their achievements, especially those in Philadelphia, have been difficult to reproduce elsewhere.² For example, Rickel and Burgio (1982) found a link between achievement and social adjustment in lower-income, minority preschool children, but failed to replicate Shure et al.'s (1971) correlation between the PIPS measure and teacher-rated adjustment. Similarly, Gillespie, Durlak and Sherman (1982), using the Hahnemann instruments and behavioral observations, found no relationship between 32 kindergarten children's interpersonal problemsolving skills and other indices of school adjustment.

Likewise, while most of the early evaluations of other school-based IPS intervention programs revealed some specific positive effects, the more general assessment conclusions were mixed, at best. Training typically resulted in enhanced problem-solving skills while having little or no impact on adjustment, whether rated by teachers, peers, or selves (see, for example, Allen, Chinsky, Larcen, Lochman & Selinger, 1976). McClure, Chinsky and Larcen (1978) made innovative use of video modelling and role playing techniques in developing an IPS intervention based on that of Allen et al. (1976). Trained third- and fourth-graders improved more than controls, not only on certain IPS measures (i.e., more numerous and effective alternative solutions generated), but also in peer group interaction and (internal) locus of control. Yet a lack of training effect on either dyadic interaction or on any six-month follow-up measure led those authors to recommend longer-term interventions involving additional social systems (including the family) and to "caution that improvements in subjects' ability to solve hypothetical problems do not necessarily transfer to real-life problem solving" (McClure, Chinsky & Larcen, 1978, p. 512).

As implementation (i.e., teacher training procedures and curricula) has improved, however, so have some of the more recent program results. Cohen (1985) cites an IPS project for preschoolers, based on the Hahnemann daily lessons, which significantly reduced anxious and hyperactive behavior while subsequently cutting referrals for mental health services to a quarter of those of control classes. Elias et al. (1986) report on a preventive social problem solving intervention to help 5th-grade children cope with school-related stressors. With a design somewhat similar to that of the present study (comparing different duration "dosages" of training with a no treatment control group across multiple schools), they found a positive direct effect of full (instruction and application) training over partial and no training on coping with stressors associated with adjusting to middle school. In addition, they found that IPS ability plays a significant mediating role with poor problem-solvers overall experiencing more intense stressors. That study advances IPS skills as a necessary, but insufficient, condition for childhood coping and adjustment.

The latest important IPS program to appear is the Yale-New Haven Middle School Social Problem Solving Project (Weissberg & Caplan, 1987). The reason this research team

7

turned to middle school is that their previous positive results with second-to-fourth-graders had disappeared after three years. They argued that, not only do children need a "booster shot" of IPS training, but middle-school developmental problems are different than those in primary school and thus require different training. Thus far, this project has resulted in improved solution generation and independently-rated sociability for trained students and fewer delinquent acts than for untrained peers.

Reviews

The variation in IPS program implementation makes it extremely difficult to draw any definitive conclusions regarding its past effectiveness or future promise (Weissberg, 1985; Weissberg & Allen, 1987?; Elias et al., 1986). Weissberg and Gesten (1982), however, make what may be the most important recommendation for developing effective school-based IPS training programs: they should be extended beyond the mere learning of discrete skills so that the generalized use of those skills in <u>real-life</u> situations becomes internalized and practiced <u>independently</u>.

Urbain and Kendall (1980) thoroughly reviewed children's social-cognitive problemsolving approaches across intervention settings and note that, at least as far as certain clinical populations are concerned (e.g., delinquents), the placement of IPS treatment within the family context "may be an important component that facilitates both the learning of the social/interpersonal cognitive problem-solving skills and their application in the real world" (p. 118). They call for the ecological validation of IPS measures through research relating them to "actual observed competent behavior in different situations in the natural social environment" (p.120). This need has evidently changed little as Trickett, Kelly, and Vincent (1985) use the existing IPS research literature to illustrate how even the most promising areas of "community" prevention research would benefit from a more ecological orientation. They point out that while most of the IPS studies have been conducted in schools, they have generally failed (a) to examine the generalizability of school-trained IPS skills to other settings or (b) to explore whether those particular skills are even relevant across settings in the larger community. In particular, Weissberg and Allen (in press) note that, "unfortunately, little is known about what the effects of these programs are in the child's home because researchers rarely involve a child's family members in such evaluations -- a limitation that must be corrected in future efforts" (ms.p. 34).

Thus, a great deal of program development and research attention has been paid to a paradigm that has assumed, but not directly tested, an impact beyond the particular intervention setting. Generalizability across settings would seem to be a critical "baby step" for any prevention strategy claiming adjustment gains which "generalize" across an individual's life span. Testing those cross-setting linkages is the primary impetus for the present report.

HYPOTHESES

H1: Trained subjects will show more improved adjustment at home than will control subjects.

H2: Trained subjects will show more improved interpersonal problem-solving behavior at home than will control subjects.

H3: Change in IPS scores in school will be associated with change in adjustment at home.

H4: Change in IPS scores in school will be associated with change in interpersonal problemsolving behavior at home.

H5: School adjustment will be associated with home adjustment.

H6: IPS scores in school will be associated with problem-solving behavior at home.

H7: Home problem solving will be associated with home adjustment.

In addition, this study will explore how specific home adjustment subscales, home problem-solving subscales, and school IPS subscales are interrelated. For example, consistent with learned helplessness theory (Seligman, 1975), social learning's "self-efficacy" theory (Bandura, 1977), and locus of control theory (Rotter, 1954), a final hypothesis (8) is that adjustment at home and in school and problem-solving behavior at home will be positively associated with "active means" generation and negatively associated with "passive means" responses in school IPS testing.

METHOD

The Program

The IPS program was implemented under the auspices of the department of mental health of a suburban county outside of New York City. The research team was invited from an area university to independently evaluate the effects of the program on IPS skill acquisition and adjustment. In 1981 and 1982, regular third and fourth grade teachers from 23 elementary schools were trained in workshops to teach the full IPS curriculum (as developed at the University of Rochester's Center for Community Study) by one of its creators. The fact that the present program is a direct descendent of those of the Rochester group is important, given the potential problems of interpreting the effects of varying implementations (see note 2). Teachers who had already taught the curriculum served as workshop facilitators.

The present curriculum consists of 34 lesson units lasting 20 to 30 minutes each, taught in regular classrooms twice a week over a period of approximately 17 weeks. Lesson procedures included workbooks, games, role playing, and discussion. The lesson content essentially follows the progression of the "five steps" to problem solving: feeling recognition (4 lessons), problem identification (5 lessons), alternative solution generation (5 lessons), consequential thinking (5 lessons), and integration of problem solving skills (15 lessons).

Sample

Two schools were selected to participate in the evaluation. Like the other schools in the program, they were located in predominantly white, middle-class neighborhoods, though one was closer to an urban area and had a slightly more racially mixed student body (School B). Each of the two schools had five fourth grade classes. Parental permission was sought from all fourth-graders and the total sample consisted of all students for whom permission was granted (71 girls and 61 boys). Informed consent was also obtained from each of these 132 students. Parent data was obtained from a total of 118 in Time 1 and 80 in Time 2. Statistical power is thus only marginal for Time 2 analysis of male data.

In School A, all five classes received IPS training with 78 students participating in the evaluation. 38 of these had also received training in the previous school year (third grade). The other school contains both a contrast group (30 students receiving less intensive IPS training) and a no training control group (n=24). Of the total sample in both schools, four girls and five boys were excluded from other than psychometric data analyses for having received partial or indeterminate IPS training due to excessive absences or unenrollment from school.

Assessment Procedure

Data were collected on each student at the start of the fourth grade IPS program in the fall (pretest) and again at the end of the curriculum in late spring (posttest). For both pretest and posttest, the procedure was conducted first at School A and then at School B. The lack of simultaneity in this design is somewhat worrisome given that the program was already two or three lessons underway in School B by the time pretest data collection was completed.

Methods included (1) a structured, 20-minute interview with each child by one of six trained graduate students (to assess degree to which IPS principles had been learned), (2) a two-part questionnaire for one or both parents to complete at home on out-of-school problem solving and adjustment, (3) a behavior rating scale filled out by the child's teacher and one or two trained graduate observers, (4) a class-administered self-rating of problem-solving efficacy, and (5) standardized achievement test scores. All interviewers, observers, and coders were blind to a particular child's treatment condition.

Measures

School

Adjustment

Child Behavior Rating Scale (CBRS; Appendix A): The CBRS, newly revised by the original authors, was designed to assess both a child's strengths as well as any problem areas in school behavior. It is thus "an amalgam of two other scales with established reliability, validity, and factor structure" (Toro, Cowen, Gesten, Weissberg, Rapkin, & Davidson, 1985): 11 (five-point) problem behavior items from the Classroom Adjustment Rating Scale (Lorion, Cowen, & Caldwell, 1975) and 15 (five-point) competence items from the Health Resources Inventory (Gesten, 1976). The three problem factors were "acting-out," "shy," and "learning problems" and the three competence factors were "frustration tolerance," "assertiveness," and "sociability" (Toro et al., 1985), although these six factors are not tested separately here. The CBRS concludes with (seven-point) global ratings of degree of "school adjustment problems" and "likeability." It was completed for all subjects by their teacher and by one or two out of four graduate student observers, each of whom followed approximately eight subjects at a time to classes, lunch, and recess over three full school days. For the subset of students randomly assigned to two observers, inter-rater reliability among observers ranged from .56 to .94 for individual items.

Problem-Solving Interview

Six trained interviewers conducted the entire dyadic interview procedure. The <u>Open</u> <u>Middle/Problem Identification/Consequences</u> test was adapted from two Rochester Social Problem Solving (SPS) Program measures (Weissberg, Gesten, Liebenstein, Schmid & Hutton, undated). The student was asked to respond to two cartoons illustrating age-relevant problematic interpersonal situations in order to identify the problem in terms of the key conflict or goal, recognize both the protagonist's and the nonprotagonist's feelings, generate alternative solutions to the problem, and consider the possible consequences of one prosocial and one antisocial solution. There are four different problem situations.³ The sample was randomly bisected and assigned two pretest and two posttest problems in counterbalanced fashion.

The following variables were coded in accordance with the Rochester SPS Program Manual and analyzed: protagonist and nonprotagonist feeling identification, alternative solutions (goal-directed protagonist actions in response to the given problem situation), variants of alternative solutions (repetitions or conceptually related versions of prior solutions), an effectiveness rating for each solution (a five-point scale with the maximum solution effectiveness analyzed here), consequences generated to a prosocial solution, and consequences generated to an antisocial solution. Also coded but not included in the present analyses were conflict and goal identification, story "chains" (elaborations) and irrelevancies, solution content (e.g., help seeking, aggression, direct action, compromise, etc.), and the number of different content categories used. Nine coding judges were trained and, based on three judges coding a practice sample of 40 5th-graders from one of the study schools, interrater agreement varied widely across the variables, with those analyzed being among the most reliable.

The <u>Means-Ends Problem Solving Measure</u> was taken directly from the Rochester Manual. It tests the child's ability to formulate a step-by-step plan toward reaching a specified goal. The beginning and the end of two other hypothetical problem situations are presented orally and the student is asked what happened in between. Again, the four different problem situations were randomly assigned in counterbalanced fashion.⁴

The stories that each child generated were later content analyzed using the following coding categories: active means and variants (discrete steps taken by the protagonist to reach a goal), passive means (events not caused by the protagonist which facilitate goal attainment), feelings attributed to the protagonist, and feelings attributed to nonprotagonists. Coded but not analyzed were means content (e.g., help seeking, verbal assertion, aggression, deception, cognition, etc.), obstacles (events or feelings that thwart goal attainment), the mentioning of time, and what, if any, goal was attained. The same nine coders were used and interrater agreement, based on three ratings of 40 fifth-graders, was generally in the acceptable 70% to 90% range for the variables analyzed.

The problem solving interview concluded by asking the student to say "all (they) can about how to solve problems." This was intended as a superficial test of IPS curriculum acquisition and was scored according to how many of the six IPS steps or principles were mentioned.

Face Valid Problem Solving Measure (Appendix D)

Entitled "What I'm like," this scale (made up of 12 dichotomous, forced-choice items) was developed by the Rochester team (see Weissberg, Gesten, Carnike, Toro, Rapkin, Davidson & Cowen, 1981) as a self-report of a child's ability to deal with typical, age-relevant interpersonal problem situations. It was administered in class by one of the evaluators in a group format.

15

Verbal Covariate

Scores on the verbal subscale of an annually administered standardized achievement (PEP) test were used to control for possible confounds in the IPS measures due to verbal and test-taking ability.

Home

A two-part questionnaire was sent home with each of the students in the study and completed by one or both of the child's parents. Both parts, problem solving and adjustment, asked parents to rate the frequency of specific behaviors "during the last month." The same parent(s) were requested to complete the posttest as the prestest.

The <u>Child and Adolescent Adjustment Profile (CAAP)</u>: The CAAP (Ellsworth, 1981; Appendix B) is made up of five subscales of four four-point, behavioral adjustment items each. The five dimensions are peer relations, dependency, hostility, productivity, and withdrawal. Ellsworth (1981) reports both test-retest and alpha reliability coefficients of between .78 and .90 (Table III) for all of the dimensions. Ellsworth (1981) also reports discriminant validity information for each of the subscales. The total CAAP scale as well as each dimension distinguished significantly (p<.01) between a group of children and adolescents referred for mental health services and a cohort of normals. Inter-rater agreement was mediocre, however, with total and subscale correlations between parents and probation officers and between parents and teachers all falling below .50, though this may be largely due to different situational contexts (Ellsworth, 1981). The factor structure (Table I) and reliability estimates (Table III) for the present sample are only slightly weaker than those reported above. The <u>Child Interpersonal Problem Solving (ChIPS) Scale</u> (Appendix C) is a 12-item questionnaire created by the present author to be completed by a parent (though it could easily be adapted for other raters and older subjects). The ChIPS contains both negative and positive interpersonal problem-solving-related behaviors and is intended as a quick, face-valid measure of IPS competency. Each item was scored on a five-point scale from "never" to "always." In addition to the overall scale, there are subscales related to three of the components of interpersonal problem solving: consequential thinking, alternative thinking, and feeling identification. Factor analysis of the 12 items failed to either completely support the conceptually derived subscales or point to clear alternatives among existing items (Table II). The alpha coefficients for these subscales were relatively weak (Table III), and so a general problem-solving subscale with greater internal reliability (a=.74) than the 12-item overall scale was used. Further development of the scale is needed.

RESULTS

The analyses of the parent data begin with reliability and factor analyses of the CAAP and ChIPS scales (Tables I-III). A post-test comparison of the third-grade treatment and repeated measures (pre-post) analysis of variance (Table IV) examine the effects of training on adjustment and IPS behavior at home. Correlations among the parent measures and between the parent and school measures (Tables V-XIX) explore linkages, both concurrently and over time, between problem solving and adjustment in school and at home.

Quasi-experimental Analysis of Variance Effects

The fourth-grade pretest can also be viewed as a posttest comparison of those in School A who received IPS training in third grade and those who did not. Thus, in a post-testonly with nonequivalent groups evaluation of the third-grade IPS training, the only mean difference between trained and untrained subjects (in School A only) on the parent measures of problem solving and adjustment which approached significance (p<.1) was a slightly poorer overall adjustment (CAAP) and lower IPS ability (ChIPS) among <u>trained</u> girls in the Fall (see means in Table IV). (Not surprisingly, this difference had diminished by the spring. In the IPS interview, there were significant differences between children who had and had not been trained the previous year in the 3rd-grade in their ability to generate alternative solutions and (for girls) active means.)

Repeated measures analysis of covariance (the verbal scores from the standardized PEP test were used as a covariate for the IPS interview variables -- both pre and post) would reveal program effects as treatment-by-time interactions. These analyses were run two ways: once using 3 groups (control, 1-year treatment, and 2-year treatment) and again (reported in Table IV) using 4 groups (dividing the 1-year treatment group by school, because of the difference in intensity or "dose" of training). This last distinction made little difference in the type or size of the few effects found in the school IPS and adjustment measures and there were no significant training effects on parent ratings of IPS behavior or adjustment. Indeed, Table IV shows that there was little group difference or overall change from pretest to posttest in the parent data. Program failure is only one possible interpretation for these results. An alternative explanation is discussed below.

Correlation Tables

The following correlational analyses (Tables V-XIX) were designed to answer three main questions: (1) Are school IPS scores and adjustment ratings associated with home IPS and adjustment, cross-sectionally? (2) Are <u>changes</u> in IPS scores and adjustment ratings in

school associated with similar changes in IPS behavior and adjustment at home? (3) What causal directions are suggested by these longitudinal (panel) correlations? For example, do IPS skills measured in school at Time 1 lead to better problem solving and adjustment at home at Time 2? Or could it be that behavioral adjustment, whether measured at home or in school, is actually a precursor to the development of IPS skills? These three areas of inquiry will be explored through, respectively, cross-sectional correlations, partial-- or "change"-- correlations (controlling for pretest scores), and cross-lagged correlation analysis. Again, the verbal scores from the standardized PEP test were used as a covariate for all IPS interview variables-- both pre and post.

In an effort to avoid basing conclusions on chance correlations among the volume of significant r's listed in Tables V through XIX, the percentage of significant r's will be reported for each and only the strongest "effects" and clearest <u>patterns</u> will be noted and discussed.

As expected, Tables V through XIX show the importance of separating by sex in data analysis involving this age group. Correlations between <u>level</u> of IPS training and the parent measures of IPS and adjustment (Table V) reveal no significant relationships at p=.05 for males. Among females, however, level of training was correlated <u>positively</u> with Time 2 parent measures of overall adjustment (r=.26), productivity (r=.34) and overall home IPS (r=.22). It must be noted, though, that the latter does not reach significance at p=.05 (in fact, only 17% of all girls' Time 2 r's in this table are significant) and that these are only increases in correlations already existing at Time 1. Possible causes of the Time 1 correlations will be discussed below.

While only 14% of the correlations between school IPS ability and home adjustment for females (Table VI) reach significance at p=.05, there are a number of clearly discernable patterns. First, home adjustment was related to prosocial consequential thinking at Time 1 (r=.35) and antisocial consequential thinking at Time 2 (r=.50). Time 1 alternative solution and variant generation was related to home adjustment both at Time 1 (r=.24) and Time 2 (r=.28), while Time 2 solutions were related to neither. Although Time 1 home adjustment was related to Time 2 <u>passive</u> means generation, the cross-lagged comparison favors the primacy of school IPS ability (11 r's > +/-.24) over home adjustment (5).

For males (Table VII), the number of significant correlations between school IPS and home adjustment is only equal to chance (5%). Even so, there is one pattern worth noting: Time 1 active means generation was correlated with <u>poor</u> Time 2 home adjustment (.34 overall, .38 with dependency and unproductivity, and .41 with withdrawal). Again, the crosslagged comparison favors the primacy of school IPS ability (13 r's > +/-.24) over home adjustment (2).

Table VIII presents correlations between girls' home and school IPS measures (29% reaching significance at p=.05). While the two are clearly and positively related overall, focusing on specific IPS interview variables is even more revealing. As in Table VI, the inclusion of solution <u>variants</u> appears to be crucial to any correlation between Time 1 solution generation in school and home IPS behavior, both pre (r=.29) and post (r=.27). With the Time 2 IPS interview, however, this relationship is replaced by that between maximum solution <u>effectiveness</u> and home IPS behavior, pre (r = .27) and post (r = .37). More consistent is the relationship between home IPS and prosocial consequential thinking (with r's ranging from .25 to .40). The relationship with anti-social consequences reaches significance at Time 2.

Also as in Table VI, Time 2 passive means generation was related to Time 1 home IPS behavior (r = .35). The face valid IPS self report (pre and post) was related to Time 2 home IPS ($r_{pre} = .38$; $r_{post} = .30$). As this suggests, the cross-lagged comparison favors the primacy of school IPS ability (26 r's > +/-.24) over home IPS behavior (15).

For males, this causal direction appears even stronger. While only 12% of the r's in Table IX are significant at p=.05, most of these involve school Time 1 IPS predicting home Time 2 IPS. In fact, there are 28 such r's greater than or equal to .25 and <u>none</u> in the opposite direction (home->school). The only problem is the valence of those r's. Except for protagonist feeling identification (with r's ranging from .29 to .41), school IPS performance, Time 1 (alternative solutions: r = -.22 to -.40, active means: r = -.39 to -.53, nonprotagonist feelings (MEPS): r = -.23 to -.46), apparently leads to <u>poorer</u> home IPS behavior, Time 2.⁵ The crosssectional correlations with males' home IPS are also generally in the "wrong" direction: including that with passive means (r = .37) and alternative solution (r=-.33) generation at Time 1 and prosocial consequences generation (r = -.37) and protagonist feelings recognition (r = -.33) at Time 2. This last r even reverses the above positive correlation with Time 1 protagonist feelings. Only the face-valid IPS report at Time 2 correlates (r=.34) as expected with home IPS.

Although these negative (or, in the case of passive means, positive) correlations between parent IPS ratings and IPS interview scores are perplexing, the fact that, at least at post-testing, girls' and particularly boys' Face Valid Problem Solving Measure correlated consistently with all of the home problem solving scales (r= .2 (ns) to .5; Tables VIII and IX) and not at all with the CAAP Scale (Tables VI and VII) supports the ChIPS Scale as a valid measure of uniquely IPS behavior. Tables X and XI show that school adjustment is related to home adjustment using different raters with different measures at different times. Among the 32 cross-sectional and cross-lagged correlations between female subjects' total home adjustment and both teachers, and observers' ratings of behavioral problems, competencies, likability, and global adjustment, only two are non-significant and all are in the right direction (r's ranging from .20 to .57). Although 78% of all the r's in Table X are significant, the magnitude of the associations between teacher and parent ratings of behavior is not as evenly distributed across the CAAP subscales as it is for the independent observers. Teachers' ratings of adjustment are most strongly correlated with parent ratings of productivity. To the extent that productivity at home is predictive of productivity at school, the above result suggests that teachers may focus on girls' productivity more than other elements of adjustment. The fact that the smallest correlations, both for teachers' and observers' ratings of school adjustment, are with parent-rated peer relations may be due to parents observing less of their children's peer relations than other aspects of their behavior.

Only 22% of the boys' home and school adjustment correlations were significant (Table XI). The only consistent correlations (ranging from r = .18 (ns) to r = .49) were between teacher ratings (pre and post) and pretest parent ratings. Regarding boys'CAAP (home) subscales, teacher ratings of adjustment are related, not only to parent ratings of productivity, but also to hostility, peer relations, and to a lesser extent withdrawal.

Tables XII and XIII examine correlations (32% being significant at p < .05 in the former and 40% in the latter) between IPS behavior at home and adjustment in school. For both male and female students, parent IPS ratings were more consistently related to teacher ratings of adjustment than to observer ratings. The most striking comparison in both tables is

the causal direction that is suggested by the cross-lagged r's: home IPS to school adjustment leads the reverse 18 to 7 (r's > +/-.24) for girls and 27 to 17 for boys.

Tables XIV and XV are posttest correlations between problem solving and adjustment at home and in school partialling the same variables at pretest so as to exhibit relationships over time. Table XVI presents the same analyses between just the home measures of problem solving and adjustment. The proportions of significant r's listed in these tables are 15%, 17%, and 44%, respectively. Although controlling for pretest scores as well as verbal ability (PEP test) reduced most synchronous posttest correlations substantially, this strategy was chosen in order to avoid the analysis of "simple" change scores which are considered generally unreliable (Cohen & Cohen, 1975). Thus, the usage of "change," "improvement," etc. in this section is for clarity and is based on "regressed" rather than simple change scores.

Girls' improvement in consequential thinking (regarding anti-social reactions to problems) in the IPS interview was related to improved parent ratings of adjustment (r = .47 with subscale r's ranging from .24 (ns) for <u>peer relations</u> to -.45 for hostility; Table XIV) and problem-solving behavior ($r_{subscale} = .30$). Increased withdrawal among girls at home (CAAP) was associated with an increase in "passive means" responses in school IPS testing (r = .38).

For males (Table XV), change in peer relations was the only home adjustment subscale significantly related to change in antisocial consequential thinking (r=.36) while home problem solving changes were more broadly related to it ($r_{general} = .42$). Compare this last statistic with the corresponding ones for prosocial consequences ($r_{total} = -.40$) and total consequences ($r_{total} = -.02$). Thus, the reader should note the importance of considering and distinguishing between consequential thinking related to prosocial and anti-social solutions. The only other pattern that emerges from the interview variables is surprising: for males, a

decrease in home IPS ratings was related to <u>greater</u> (Means-Ends) protagonist feelings identification (r = -.44). Changes in home IPS behavior correlated highly and positively with changes in the face-valid IPS self-report (r = .63), again confirming the validity of the ChIPS measure.

Turning to home problem solving subscales for both sexes, change in school antisocial and total consequential thinking was fairly consistently related to change in all home IPS factors <u>except</u> consequential thinking. This suggests, on the one hand, possible validity problems for the school and/or the home measure of consequential thinking, but on the other hand, that the effects of consequential thinking on out-of-school behavior appear robustly broad.

High test-retest correlations in the teacher ratings (see Table XIX, for example) might explain the relatively low partial correlations with the parent ratings (most of the explained variance is being usurped by the pretest teacher covariate). Another way of looking at it is as a strong "halo effect:" in which a child is unable to change a teacher's opinion even if his/her behavior has changed according to parents and independent observers. The result is that, contrary to the pattern of zero-order correlations, <u>change</u> in home problem solving and adjustment <u>appears</u> to be more strongly related to change in observer ratings of adjustment than to change in teacher ratings (the bottom halves of Tables XIV and XV). For girls, change in observer ratings of adjustment correlated positively with changes in home adjustment (r_{competency} = .34, r_{problem} = .37) and problem solving (r_{competency} = .27, r_{problem} = .29). For boys, improvements in observer-ratings of behavioral adjustment were unexpectedly associated with <u>decreases</u> in parental adjustment ratings and a decrease in boys' total home IPS behavior was

24

related to <u>increases</u> in observer-rated competency behavior (r = -.38), likability (r = -.40), and global adjustment (r = -.43) in school.

Not surprising were the strong and consistent correlations between parent ratings of behavioral adjustment and problem solving. Table XVI shows the posttest r's controlling for both pretest variables. Increases in parent ratings of dependency and hostility and a decrease in productivity were all related to a decrease in ratings of home IPS behavior. While the possible causal direction of these effects will be more carefully examined and discussed in the next section, a simple comparison of cross-lagged zero-order r's among the parent scales and subscales in Table XVII (74% significant r's) sheds some interesting light on this issue. For males, as expected, home IPS appears to influence later adjustment (r's > +/-.24=27) more than the reverse (19). For females, however, it appears that home adjustment may be prior to home IPS behavior (r's > +/-.24 = 36 versus 22 for the reverse).

DISCUSSION

Cross-lagged panel correlations

Cross-lagged correlational analysis is a method of inferring the probable causal direction between two variables measured at two or more points in time. While problems in interpretation make reliance upon cross-lagged analysis unadvisable except under certain circumscribed conditions (Cook & Campbell, 1979), selected panels are presented here (Tables XVIII and XIX) primarily for the purpose of illustrating relationships of interest over time. They are meant merely to complement the foregoing analyses, not to replace them, and their inferential limitations will be discussed.

The panel correlations in Table XVIII expose several common problems in interpreting "cross lags." For most, the assumption of equivalence of temporal stability between the two variables is seriously violated. Cook and Campbell (1979) point out that, all else being equal (including cross-variable causal paths), the variable with the greater autocorrelation (stability) will appear to be caused by the less stable variable. It would thus be misleading to assume that the substantially greater r between pretest IPS skills as measured in school and post-test home problem solving and adjustment is necessarily meaningful. In the opposite cases-- where more stable home factors appear to bear causal responsibility for school IPS performance-- there is another problem to consider: the lack of "stationarity," as evidenced by the change in the synchronous correlations. In Table XVIII the four such apparent effects include girls' home problem solving and adjustment on passive means generation, and the negative influence of boys' productivity at home on their ability in school to generate possible consequences of antisocial reactions to problem situations. Of the four, only the apparent negative effect of boys' home problem solving on "prosocial" consequential thinking does not involve a valence change in synchronous correlation.

A third condition for the interpretability of cross-lagged r's, according to Cook and Campbell (1979), is the unlikelihood of confounding negative and positive causation. Despite the modest size of the correlations, the opposite valence pattern between boys and girls seems unmistakable. As noted above, there are several interesting valence contrasts among the cross-variable r's. One not shown in Table XVIII, for example, is that the small negative r (-.16) between active means generation and maladjustment for girls turns positive (.17) in the post-test. Turning IPS theory on its head for a moment, with the array of positive and negative r's in the panels, one might indeed wonder whether, in addition to whatever advantages welladjusted children may have in terms of IPS skills (prosociability allows greater opportunity to practice those skills), for other children the ability to merely generate "means" and "solutions" may simply help them out of frequent trouble (thus labelling them as maladjusted) without their appreciating the other IPS components, such as feeling identification and consequential thinking. It appears as if boys (showing <u>inverse</u> relationships between the ability to generate means and solutions, on the one hand, and positive home behavior, on the other) may be especially susceptible to such "junior Machiavellianism." A final caveat: the relatively modest (only 7 of 24 are significant at a=.05) and contradictory synchronous cross-correlations in Table XVIII are no guarantee of Cook and Campbell's (1979) fourth condition for interpreting cross-lagged panels -- the plausibility of no synchronous cross-causation.

The panel correlations presented in Table XIX are more readily interpretable. Eight of ten panels suggest acceptable stationarity and there is a much narrower discrepancy in temporal stability between each of the variable pairs. While an absence of synchronous crosscausation may still not be completely plausible, at least the cross-variable valences are unique within panels. Table XIX lends some support to the hypothesis that generalized interpersonal problem solving skills, as recognized by parents, can lead to better behavioral adjustment for boys at home and in school, the final panel notwithstanding. The third, fourth, and fifth panels for girls, on the other hand, would seem to suggest that for them adjustment at home precedes informal IPS ability.

Methodological Issues

The results of the repeated measures analysis of variance on the IPS interview variables (not reported) suggest a methodological problem. Overall between group effects were fairly consistent, with all three program groups performing better on average than the control group. While there was also some significant improvement over time across groups, there were no significant group X time interaction effects (i.e., no program effects) on either the home or the school problem-solving measures. The only group X time effects were for teacher and observer ratings of behavioral adjustment (with the treatment groups, especially 1-year intensive treatment boys and 2-year intensive treatment girls, improving compared to the control group). This is in direct contrast with previous research which report effects on IPS measures but not on adjustment. Part of the problem appears to be that, at Time 1, the 1-year experimental groups were already significantly better than controls at school-tested alternative solution and variant generation.

This might also help explain why girls' level of training and home behavior (adjustment and problem solving) were already slightly correlated at Time 1 (Table V). A comparison of group means (Table IV) suggests that this correlation is not due to the previous training of the 2-year-training group. The main cause of the pretest correlations with training level appears, rather, to be a school effect: higher parent ratings of overall adjustment and problem-solving behavior among female students (especially the <u>1-year</u> training group) at School A. The fact that, unlike School B, the Time 1 testing was completed at this school <u>prior</u> to the commencement of training suggests that the difference is largely demographic in nature, or at least unrelated to IPS training.

Thus, two admitted weaknesses of the present study's design are the confounding of school with treatment group and the lack of an alternative treatment comparison group (although there is variation in duration and intensity of treatment). In particular, the lack of a control group at the school with the most homogeneously white, middle-class population presents a possible confound between demographic background and performance on all the measures. Even with a control group at one school and treatment variation at the other, treatment "contamination" throughout a given school must always be considered a strong possibility. These issues have been neglected in other IPS intervention studies (Urbain & Kendall, 1980) and, while they were beyond the researchers' control in this study, they should be taken into consideration in future research. These methodological limitations confirm what was suspected from the outset: that this study would probably have better success focusing on theoretical reconnaissance (correlations) than on program evaluation (if for no other reason than one cannot be sure of the meaning of the "pre-existing" group differences).

Even with the above design weaknesses and even using the present correlational data, much more could be done in terms of multivariate analyses. For example, multiple regression could be used at least two ways: (1) to predict home adjustment and problem solving from Time 1 school IPS while controlling for stability in the predicted variable; (2) to predict adjustment from IPS, both at Time 2, while controlling for variation in both measures at Time 1. Furthermore, path analysis might provide more readily interpretable information regarding causation than do the above cross-lagged panels.

Conclusions

Let us now review the results of the present study vis-a-vis the stated hypotheses. Trained subjects failed to show significantly more improved adjustment (H1) or problemsolving behavior (H2) at home than did control subjects. Indeed, Table IV suggests considerable stability over time in the parent data. As noted above, however, looking at relationships between IPS and adjustment across groups was more fruitful. Change in certain IPS scores in school was associated with change in adjustment (H3) and problem-solving behavior (H4) at home (Tables XIV & XV). Specifically, improvement in consequential

29

thinking was related to improved parental ratings of adjustment (primarily for girls) and problem-solving behavior (especially for boys). Improvement in boys' home IPS behavior was also strongly related to improvement in their self report of IPS ability but <u>negatively</u> related to greater protagonist feelings identification in the MEPS section of the interview.

School adjustment was associated with home adjustment (H5) three ways: crosssectionally and cross-lagged (Tables X & XI) and in terms of regressed change (Tables XIV & XV). There was broad cross-sectional and "lagged" agreement between parents and both teachers and observers regarding female subjects' behavioral adjustment. For boys, however, the only consistent zero-order correlations were between teacher ratings (pre and post) and pretest parent ratings of adjustment. When controlling for pretest ratings, however, it is observer-rated adjustment that is related positively to girls' home adjustment and <u>negatively</u> to boys' home adjustment. A decrease in boys' total home IPS behavior was related to <u>increases</u> in observer-rated competency behavior, likability, and global adjustment in school.

IPS scores in school were associated with problem-solving behavior at home (H6). For females, home IPS behavior, both Time 1 and Time 2, was related to the following IPS school IPS measures: prosocial consequential thinking (especially in response to prosocial solutions), Time 1 solution generation, and Time 2 maximum solution effectiveness and passive means generation (Table VIII). The face valid IPS self report (pre and post) was related to Time 2 home IPS. For males, most of the correlations were the reverse of what was expected (Table IX). Protagonist feeling identification, Time 1, and the face-valid IPS report, Time 2, correlated positively with Time 2 home IPS. But, generation of Time 1 alternative solutions, active means, and nonprotagonist feelings were related to <u>poorer</u> home IPS behavior, Time 2. Furthermore, home IPS was positively related to <u>passive</u> means generation at Time 1 and inversely related to prosocial consequences generation and protagonist feelings recognition at Time 2.

The positive correlations between pretest home problem solving and boys' pretest and girls' posttest passive means generation (Tables VIII and IX) appear to contradict the expected link between IPS and the various "control" theories, such as behaviorism's learned helplessness/attributional style paradigm (Seligman, 1975) and social learning's "self efficacy" (Bandura, 1977) and locus of control theory (Rotter, 1954). Passive means generation may, however, be a poor proxy for externality/helplessness.

Home problem solving was clearly associated with home adjustment, as rated by parents (H7). In particular, increases in parent ratings of dependency and hostility and a decrease in productivity are all related to a decrease in ratings of home IPS behavior (Table XVI & XVII). The cross-lagged panels (Table XIX) suggest that boys' interpersonal problem solving skills, as recognized by parents, can lead to better behavioral adjustment at home. For girls, however, it appears that home adjustment leads to better home IPS ability.

Looking back to the introduction at the novel aspects of the present study, what can we conclude? First, separation of the evaluator's role with those of program trainer, supervisor, and/or teacher was a mixed blessing: While it did ensure greater objectivity, it created some difficult problems with site entree and accessibility and, even more important, with experimental design. Second, the importance of attending to sex differences (particularly critical among latency-aged and early adolescent children) into account was borne out by these results whether the raters are parents, teachers or trained observers. It may be, for example, that girls' less aggressive and more "feeling-oriented" problem-solving style is more effective and should be stressed in boys' IPS curriculum.

Finally, regarding the effects of IPS training on children's out-of-school social adjustment and coping (problem-solving) behavior, clear and consistent results continue to be elusive. It is important to note that while trained children did show slightly greater gains in teacher and observer-rated adjustment, they failed to improve in IPS skills relative to controls in hypothetical (interview) problem solving situations. Thus, it is difficult to judge the extent to which <u>trained</u> IPS skills generalize to behavior and adjustment outside the classroom and school as it is unclear how much any IPS skill improvement was due to training. The many, albeit complicated, associations between IPS and adjustment at home and across school boundaries are promising, however, and certainly warrant further investigation.

Thus, the results of this study suggest that IPS theory requires considerably greater refinement in order to adequately explain, for a variety of demographically different populations, the complex relationship between the various components of problem solving, and how and where they are measured, and the various aspects of childhood adjustment, and how and where they are measured. Thus, while implementation may be considered a key variable in the success of both IPS programs and research, it is only a necessary and not a sufficient condition. Even the best program is limited by the quality of the model driving it.

<u>NOTES</u>

1. The two main programs of theoretical and empirical work in this area have been referred to as "interpersonal cognitive problem solving" on the one hand and "social problem solving" on the other. In order to avoid confusion with other interpretations of "cognitive" and "social" problem solving, I prefer and will use instead the term "interpersonal problem solving," or simply IPS.

2. The word "reproduce" was judiciously chosen here instead of "replicate" because few, if any, IPS studies have been strict replications of the Hahnemann paradigm. For example, Allen et al. (1976) did not emphasize either the prerequisite first eight weeks' content or teachers' informal IPS "dialoguing," both of which were part of Spivack and Shure's program (Weissberg & Allen, in press). Such implementation differences could, of course, explain the differences in outcome.

3. The OM-PI/C involves the following four problem situations: (1) two children each want to take the class gerbil home over the weekend when a classmate also wants to, (2) a child wants to stop others from teasing about a new haircut, (3) a child wants to ride a bike that someone else has been using a long time, and (4) a child borrow's a friend's favorite toy and loses it. 4. The R-MEPS involves two stories that "pull" for prosocial means (a new child in the neighborhood ends up with many friends and a child spills ink on the teacher's book but the teacher ends up smiling at the child) and two stories that "pull" for antisocial means (a child gets pushed in the mud and winds up getting even and a child is forbidden to stay overnight at a friend's house and ends up staying with the friend).

5. Although the coding direction was checked twice, there is always the possibility that unexpected valence may be due to some human error.

REFERENCES

Allen, G. J., Chinsky, J. M., Larcen, S. W., Lochman, J. E., & Selinger, H. V. (1976). Community psychology and the schools: A behaviorally oriented multilevel preventive approach. Hillsdale, NJ: Lawrence Erlbaum Associates.

Bandura, A. (1977). Social learning theory. Englewood Cliffs, NJ: Prentice-Hall.

- Cohen, B. (1985). Michigan prevention programming. *APA Division of Community Psychology Newsletter (The Community Psychologist), 18,* 8-12.
- Cook, T. D., & Campbell, D. T. (1979). *Quasi-experimentation: Design and analysis issues* for field settings. Boston: Houghton-Mifflin.
- Cowen, E. L. (1980). The Wooing of Primary Prevention. *American Journal of Community Psychology*, 8(3), 258-284.
- Cowen, E. L., Pederson, A., Babigian, H., Izzo, L. D., & Trost, M. A. (1973). Long-Term Follow-Up of Early Detected Vulnerable Children. *Journal of Consulting and Clinical Psychology*, 41(3), 438-446.
- Elardo, P.T., & Caldwell, B.M. (1979). The effects of an experimental social development program on children in the middle childhood period. *Psychology in the Schools, 16*, 93-100.
- Elias, M.J., Gara, M., Ubriaco, M., Rothbaum, P. A., Clabby, J.F., and Schuyler, T. (1986).
 Impact of a preventive social problem solving intervention on children's coping with middle-school stressors. *American Journal of Community Psychology*, 14, 259-275.
- Ellsworth, R.B. (1981). The Child and Adolescent Adjustment Profile (CAAP): Scale and Manual. Available from the author.

- Gesten, E.L. (1976). A health resources inventory: The development of a measure of the personal and social competence of primary-grade children. *Journal of Consulting and Clinical Psychology*, 44, 775-786.
- Gesten, E.L., Flores de Apodaca, R., Rains, M., Weissberg, R.P., & Cowen, E.L., (1979).
 Promoting peer-related social competence in schools. In M.W. Kent & J.E. Rolf
 (Eds.), *Primary prevention of psychopathology (Vol.3): Social competence in children*.
 Hanover, NH: University Press of New England.
- Gesten, E.L., Rains, M.H., Rapkin, B.D., Weissberg, R.P., Flores de Apodaca, R., Cowen,E.L., & Bowen, R. (1982). Training children in social problem solving competencies:A first and second look. *American Journal of Community Psychology*, 10, 95-115.
- Gillespie, J.F., Durlak, J.A., & Sherman, D. (1982). Relationship between kindergarten children's interpersonal problem-solving skills and other indices of school adjustment: A cautionary note. *American Journal of Community Psychology, 10,* 149-154.

Jahoda, M. (1958). Current concepts of positive mental health. New York: Basic.

- Larcen, S., Spivack, G., and Shure, M.B. (1972). Problem-solving thinking and adjustment among dependent-neglected preadolescents. Presented to the annual meeting of the Eastern Psychological Association.
- Lorion, R.P., Cowen, E.L., & Caldwell, R.A. (1975). Normative and parametric analyses of school maladjustment. *American Journal of Community Psychology*, *3*, 293-301.
- McClure, L.F., Chinsky, J.M., & Larcen, S.W. (1978). Enhancing social problem-solving performance in an elementary school setting. *Journal of Educational Psychology*, 70, 504-513.

- McKim, B.J., Weissberg, R.P., Cowen, E.L., Gesten, E.L., & Rapkin, B.D. (1982). A comparison of the problem-solving ability and adjustment of suburban and urban third-grade children. *American Journal of Community Psychology*, *10*, 155-170.
- Platt, J.J., & Spivack, G. (1974). Means of solving real-life problems: I. Psychiatric patients vs. controls and cross-cultural comparisons of normal females. *Journal of Community Psychology*, 2, 45-48.
- Rickel, A.U., & Burgio, J.C. (1982). Assessing social competencies in lower income preschool children. *American Journal of Community Psychology*, *10*, 635-645.
- Rotter, J. B. (1954). *Social learning and clinical psychology*. Englewood Cliffs, NJ: Prentice-Hall.
- Seligman, M.E.P. (1975). *Helplessness: On depression, development and death.* San Francisco: Freeman.
- Shure, M.B. (1977). Real life problem solving for parents and children: An approach to social competence. Paper presented to the Third Vermont Conference on the Primary Prevention of Psychopathology.
- Shure, M.B. (1979). Training children to solve interpersonal problems: A preventive mental health program. In R.F. Munoz, L.R. Snowden, J.G. Kelly, & Associates (Eds.), *Social and psychological research in community settings*. San Francisco: Jossey-Bass.
- Shure, M.B. (1980). *Interpersonal problem solving in ten-year-olds: Final report*. National Institute of Mental Health Grant R01MH27741.
- Shure, M.B., & Spivack, G. (1970). *Cognitive problem-solving skills, adjustment, and social class*. Research and Evaluation Report. Philadelphia: Hahnemann Medical College.

- Shure, M.B., & Spivack, G. (1972). Means-ends thinking, adjustment, and social class among elementary-school-aged children. *Journal of Consulting and Clinical Psychology*, 38, 348-353.
- Shure, M.B., & Spivack, G. (1978). *Problem-solving techniques in child-rearing*. San Francisco: Jossey-Bass.
- Shure, M.B., & Spivack, G. (1979). Interpersonal problem-soving thinking and adjustment in the mother-child dyad. In M.W. Kent & J.E. Rolf (Eds.), *Primary prevention of psychopathology (Vol.3): Social competence in children*. Hanover, NH: Univ. Press of New England.
- Shure, M.B., & Spivack, G. (1982). Interpersonal problem-solving in young children: A cognitive approach to prevention. *American Journal of Community Psychology*, 10, 341-356.
- Siegal, J., Platt, J.J., and Spivack, G. (1974). Means of solving real-life problems: II. Do professionals and laymen see the same solutions as effective in solving problems? *Journal of Community Psychology*, 2(1), 49-50.
- Spivack, G., Platt, J.J., & Shure, M.B. (1976). *The problem-solving approach to adjustment*. San Francisco: Jossey-Bass.
- Spivack, G., & Shure, M.B. (1974). Social adjustment of young children: A cognitive approach to solving real life problems. San Francisco: Jossey-Bass.
- Spivack, George, & Shure, Myrna B. (1985). ICPS and Beyond: Centripetal and Centrifugal Forces. *American Journal of Community Psychology*, *13*(3), 226-243.

- Toro, P.A., Cowen, E.L., Gesten, E.L., Weissberg, R.P., Rapkin, B.D., & Davidson, E. (1985). Social environmental predictors of children's adjustment in elementary school classrooms. *American Journal of Community Psychology*, 13, 353-364.
- Trickett, E.J., Kelly, J.G., & Vincent, T.A. (1985). The spirit of ecological inquiry in community research. In E.C. Susskind and D.C. Klein (Eds.), *Community research: Methods, paradigms, and applications* (pp. 283-333). New York: Praeger.
- Urbain, E.S., & Kendall, P.C. (1980). Review of social-cognitive problem-solving interventions with children. *Psychological Bulletin*, 88, 109-143.
- Weissberg, R.P. (1985). Designing effective social problem-solving programs for the classroom. In B. Schneider, K.H. Rubin, & J. Ledingham (Eds.), *Peer relationships* and social skills in childhood. (Vol. 2: Issues in assessment and training).
- Weissberg, R.P. & Allen, J.P. (in press). Promoting children's social skills and adaptive interpersonal behavior. In L. Michelson & B. Edelstein (Eds.), *Handbook of prevention*. New York: Plenum.
- Weissberg, R.P., & Gesten, E.L. (1982). Considerations for developing effective school-based social problem-solving (SPS) training programs. *School Psychology Review*, 11, 56-63.
- Weissberg, R.P., Gesten, E.L., Carnrike, C.L., Toro, P.A., Rapkin, B.D., Davidson, E., & Cowen, E.L. (1981). Social problem-solving skills training: A competence-building intervention with second- to fourth-grade children. *American Journal of Community Psychology*, 9, 411-423.

Weissberg, R.P., Gesten, E.L., Liebenstein, N.L., Schmid, K.D., & Hutton, H. (undated). *The Rochester Social Problem Solving (SPS) Program: A training manual for teachers*.
Rochester, NY: Primary Mental Health Project, Center for Community Study.

Weissberg, R.P., Gesten, E.L., Rapkin, B.D., Cowen, E.L., Davidson, E., Flores de Apodaca,
R., & McKim, B.J. (1981). Evaluation of a social problem-solving training program
for suburban and inner-city third grade children. *Journal of Consulting and Clinical Psychology*, 49, 251-61.

List of Tables and Appendices

- Table I. Factor Structure: Child & Adolescent Adjustment Profile
- Table II. Factor Structure: Child Interpersonal Problem Solving Scale
- Table III. Estimates of the Reliability of the Parent Measures
- Table IV. Repeated Measures (Pre-Post) ANOVAs
- Table V. Correlations between Level of IPS Training & Parent IPS & Adjustment Measures
- Table VI. Home Adjustment & School IPS Correlations: Females
- Table VII. Home Adjustment & School IPS Correlations: Males
- Table VIII. Home & School Interpersonal Problem Solving Correlations: Females
- Table IX. Home & School Interpersonal Problem Solving Correlations: Males
- Table X.
 Home & School Adjustment Correlations: Females
- Table XI. Home & School Adjustment Correlations: Males
- Table XII. Home IPS & School Adjustment Correlations: Females
- Table XIII. Home IPS & School Adjustment Correlations: Males
- Table XIV. Post-test Correlations Partialling Both Pretest Variables: Females
- Table XV. Post-test Correlations Partialling Both Pretest Variables: Males
- Table XVI. Post-test Correlations Partialling Both Pretest Variables: Home Measures
- Table XVII. Correlations between Home IPS & Adjustment Measures
- Table XVIII. Cross-lagged Panel Correlations between School IPS & Home Measures
- Table XIX. Cross-lagged Panel Correlations between Home IPS & Home & School Adjustment
- Appendix A: Child Behavior Rating Scale
- Appendix B: Child & Adolescent Adjustment Profile (CAAP Scale)

Appendix C: Child Interpersonal Problem Solving (ChIPS) Scale

Appendix D: Face Valid Problem Solving Measures

Table I. Facto	or Str	uctur	e: ^a Ch	ild ar	d Adole	escent A	djustm	ent Pr	ofile	
	Pre-	test				Post	-test ^k)		
A. Peer Relations	A	B	<u>C</u>	D	E	A	B	<u>C</u>	D	E
l. Gets along	.48		.51			. 73				
2. Joins freely	.77					.80				
3. Invites others	.75					.85				
4. Laughs/smiles				.32	.49	.71				
B. Dependency										
5. Wanted help		.84					.85			
6. Discouraged		.61					.57			
7. Help figuring		.89					.88			
8. Questions		.81					.81			
C. Hostility										
9. Flared up			.81					.85		
10. Upset			.81					.77		
ll. Quarrels	.33		.61					.34 ^b		
12. Undisciplined			.54				.42	.59		
D. Productivity										
13. Works hard				.84					.86	
14. Stays at work				.78					.84	
15. Uses abilities				.75					.83	
16. Careful				.80					.85	
E. Withdrawal										
17. Inactive					.79	.33				.72
18. Slow					.67					.49 ^b
19. Indifferent					.65				.32	.32 ^b
20. Daydreams					.73		2. Star 10. Star 10 2			.87

^a Loadings are based on varimax rotation. Only those > .3 are shown.

^b Not reported is a sixth factor which emerged in the post-test consisting of items 11, 18, and 19 with loadings of -.73, .66, and .63, respectively.

Table II. Factor Struc	ture:	a Chil	d Inte	erperso	onal Pro	blem	Solvin	g Scale	<u> </u>
Conceptual Subscales:	Pre	-test			Post	-test			
Consequential Thinking	<u>1</u>	2	3	4	1	2	3	4	5
1. Consequences-behavior	.76				.72				
2. Learns from mistakes	.79				.39	.60			
4. Avoidable fights	.36	41	. 45						.89
10. Curious		.81				.61		46	
3. Surprised when scolde	ed		.81		47	.42			.45
7. Non-forceful			.45	.49			.74		
Alternative Solutions									
5. Creative	. 59	.44				.78			
6. Needs to be told			.45			.74			
8. Tries other ways		.64		.38			.84		
9. Comes to others				.83				.89	
Feeling Consideration									
ll. Own feelings	.36	.58			.52	.35	32	37	
12. Others' feelings	.75				.77				.34
and the last had been been and the last had been been and had been been been and the been see had been been been		And the Base State State State Street							-

^a Loadings are based on varimax rotation. Only those > .3 are shown.

the second se	the second s			
CAAP Scale	Pre-test	Post-test	Standardiz	ation Sample ^a
	Alpha (n=118)d	Alpha (79)	Alpha (157) Test-retest (105)
General Adjustment	.86	.88		
Subscales				
A. Peer Relations	.63	.81	.80	.81
B. Dependency	.84	.84	.83	.78
C. Hostility	.74	.71	.87	.89
D. Productivity	.84	.91	.90	.86
E. Withdrawal	.75	.77	.87	.81
ChIPS Scale	2	Pre-test	Alpha (n)	Post-test Alpha (n)
Total Scale		FO	(117)	(100)

Table III. Estimates of the Reliability of the Parent Measures (CAAP, ChIPS)

ChIPS Scale	Pre-test Alpha (n)	Post-test Alpha (n)
Total Scale	.58 (117)	.64 (80)
Subscales (Items)		
General Problem Solving (1,2,4-6,10-1	2) .74 (76)	.73 (76)
Consequential Thinking (1,2,4,10)	.56 ^b (76)	.32 ^C (76)
Alternatives & Feelings (5,6,11,12)	.65 (76)	.68 (76)
Alternative Solutions (5,6)	.41 (76)	.58 (76)
Feeling Consideration (11,12)	.50 (117)	.66 (80)

^a Primarily mothers and teachers rating normal male and female children (mean age = 11.8), with probation officers also rating for test-retest purposes (Ellsworth, 1981).

^b Alpha=.72 if item 10 is deleted.

^C Alpha=.55 if item 4 is deleted.

d In this and all tables below, the sample size (n) or degrees of freedom (df) may vary slightly depending on the variables analyzed. The number reported is generally the maximum sample or df, with some variables possibly having 1 or 2 missing values.

	1.000		Tropod	ood modeloo	(110 1000)	1101110	
Measure	Group	Sex	(n)	X−Tl (SD)	⊼ T2 (SD)	Effect	F ^a (df)
Overall	Control	Female	(12)	2.22 (.40)	2.27 (.49)	_	.72 (3,69)
Hame		Male	(7)	2.01 (.37)	1.86 (.31)	Sex	.05 (1,69)
Adjust-	l year-	F		2.21 (.52)	2.12 (.39)		.00 (1,69)
ment	Partial	М	(3)	2.13 (.58)	2.22 (.78)	Group X Time	.22 (3,69)
(CAAP) ^b	l year-	F	(12)	1.83 (.42)	1.96 (.43)	Group X Sex	1.32 (3,69)
	Intensive	e M	(15)	2.09 (.38)	2.00 (.45)	Sex X Time	.26 (1,69)
	2 year-	F		2.02 (.37)	2.02 (.39)	Group X Sex	
	Intensive	e M	(7)	2.04 (.27)	2.10 (.30)	X Time	1.24 (3,69)
Overall	Control	F	(12)	3.41 (.20)	3.33 (.30)	Group	1.19 (3,70)
Home		М	(7)	3.46 (.24)	3.62 (.18)		.15 (1,70)
Problem	l year-	F	(7)			Time	.77 (1,70)
Solving	Partial	М	(3)	3.56 (.63)	3.31 (.43)	Gp. X Time	1.30 (3,70)
Ability	l year-	F	(12)			Group X Sex	
(ChIPS)	Intensive	e M	(15)	3.54 (.34)	3.68 (.40)	Sex X Time	2.48 (1,70)
	2 year-	F	(15)	3.52 (.42)	3.51 (.31)	Group X Sex	
	Intensive	e M	(7)	3.43 (.39)	3.49 (.43)	X Time	1.59 (3,70)

Table IV. Repeated Measures (Pre-Post) ANOVAs

^aNo effects were statistically significant at p=.1.

^bThe CAAP scale was coded so that the higher means indicate poorer adjustment.

and Parent IPS and Adjustment Measures										
	Females: Time]	Time 2	Males: Time 1	Time 2						
Parent Measure	r (n)	r (n)	r (n)	r (n)						
Overall Adjustment ^b	.18 ^C (65)	.26 ^d (46)	13 (52)	.15 (32)						
Subscales:										
A. Peer Relations ^b	.18 ^C (65)	.06 (46)	08 (52)	18 (32)						
B. Dependency	04 (65)	09 (46)	07 (52)	.07 (32)						
C. Hostility	11 (65)	18 (46)	01 (52)	02 (32)						
D. Productivity ^b	.18 ^C (63)	.34 ^e (46)	18 (51)	20 (31)						
E. Withdrawal	12 (63)	17 (46)	.23 ^C (51)	.04 (31)						
Interpersonal Proble	n									
Solving Behavior	.19 ^C (65)	.22 ^C (47)	02 (50)	02 (32)						
(no subscales appro	oach significan	nce)								

Table V. Correlations between Level^a of IPS Training

^a Training Levels: None= 0, 1-year partial training= 1, 1-year intensive= 2, 2 years of intensive training =3.

^b The valence of the r coefficients was reversed for the CAAP and subscales A and D to reflect positive "adjustment." c $p \leq 1$, 1-tailed.

d p \leq .05 1-tailed.

e p≤.01, 1-tailed.

Table VI. Home Adjustment and School IPS Correlations: Females
Home (CAAP): ^a Pretest (n=57) Posttest (n=40)
<u>School (IPS)^b Total A B C D E Total A B C D E</u>
OM-PI/C: (11 r's > +/25) (11)
Alt. Solutions0614 .13 .0817200707 .14 .151720
P Alts./Variants24 ^C 28 ^C 05161234 ^d 28 ^C 28 ^C 010031 ^C 36 ^C
Max.Effective .07 .00 .13 .15 .0510 .0508 .06 .26 ^C .1016
R Consequence-Pro 35^{d} 28^{c} 34^{d} 29^{c} 24^{c} 13 27^{c} 17 26^{c} 24 23 11
Conseq-Antisoc1408 .041327 ^C 1209 .0301 .002107
E Total Conseq29 ^C 211725 ^C 30 ^C 142007151330 ^C 04
Feeling-Protag0113 .1100 .04 .011326 ^C 04 .120920
T Feel-Nonprotag0007 .05 .0105 .05 .090003 .11 .05 .18
Means-Ends PS:
E Active Means160830 ^d 100806 .18 .1212 .08 .23 .26 ^c
Passive Means .05 .08 .06 .130410 .06 .1209 .06 .10 .00
S Feeling-Protag02 .05 .050510 .20 .16 .16 .13 .0903 .29 ^C
Feel-Nonprotag05 .0806 .0118 .0203090409 .01 .10
T
Face Valid: .0204 .0101 .10 .0002 .08080907 .08
P OM-PI/C: (5) (14)
Alt. Solutions091306040211202206101617
O Alts./Variants131412060513192304081517
Max.Effective2124 ^C 22 ^C 210026 ^C 2528 ^C 07251714
S Consequence-Pro2017141418152325 .01222311
Conseq-Antisoc1217 .03090712 50^{d} 40 d 26 c 42 d 41 d 33 c
T Total Conseq. $19210613151644^{d}39^{d}1639^{d}39^{d}27^{c}$
Feeling-Protag02 .060416 .13 .11 .1005 .0418 .18 .30 ^C
T Feel-Nonprotag18 .19 .08 .05 .21 .12 .18 .08 .03 .13 .24 .13
Means-Ends:
E Active Means .05 .0414 .20 .1409 .17 .1713 .06 .26 ^C .17
Passive Means26 ^C 1828 ^C 26 ^C 0528 ^C 11221910 .01 .04
S Feeling-Protag040106 .09 .03 .05 .18 .11 .18 .13 .10 .14
Feel-Nonprotag01 .05 .04 .04170201 .0304 .201004
Т
Face Valid:060413080200050502060303
^a CAAP Subscales: A. Peer Relations, B. Dependency, C. Hostility,
D. Productivity, E. Withdrawal. Higher scores reflect maladjustment.
^b Verbal ability was partialed out of all IPS interview correlations.
$c_{p} \leq .05$, 1-tailed. $d_{p} \leq .01$, 1-tailed. Total sig.=14%.

able VI. Home Adjustment and School IPS Correlations: Females

	Home (CAAP): ^a Pre-test (n=44) Post-test (n=26)												
Sc	hool (IPS) ^b	Total		B	, C	D	E	Total		В	c	D	Е
		r's >±						(13	1				
	Alt. Solutions		.02	.06	.20	.16	.04		/	.36 ⁰	.11	.03	.00
Р	Alts./Variants	.10	.04	.08	.25 ⁰	.16	.11	13	.04	.20	.22	06	04
	Max.Effective	.04	.17	10	03	05	.09	.11	.43 ^C	.17	.03	17	01
R	Consequence-Pro.	.11	.08	07	.07	.19	.04	.16	.25	.09	.13	.19	06
	Conseq-Antisoc.	.18	.09	.12	.07	.13	.12	.06	.17	.21	11	02	06
Ε	Total Conseq.	.17	.10	.03	.08	.18	.09	.13	.25	.18	.01	.10	07
	Feeling-Protag.	.18	.09	. 33	² 10	.20	.02	19	 27 ·	02	 32 ⁰	204	06
т	Feel-Nonprotag.	.08	19	.14	·27 ⁰	200	06	.22	.11	.13	.18	.23	.08
	Means—Ends PS												
Ε	Active Means	.16	03	.13	.11	.18	.04	.34 ^C	18	.38 ^C	.15	.38 ^C	.41¢
	Passive Means	.00	06	.17	20	07	.18	21	24	.01	13	13	23
S	Feeling-Protag.	18	08	14	.10	22	17	34 ^C	 23 ·	24	11	36 ^C	20
	Feel-Nonprotag.	.04	01	.09	06	.14	04	.04	10	.22	04	.06	03
т													
	Face Valid	24	05	19	05	15	24	26	14	22	17	23	18
Ρ	OM-PI/C (2)							(2)				
	Alt. Solutions	07	.02	17	01	.10	12	.04	04	.12	.20	.07	18
0	Alts./Variants	10	04	14	08	.06	10	04	05	.10	.07	03	21
	Max.Effective	06	.08	24	.17	05	09	15	13 ·	24	.24	18	12
S	Consequence-Pro.	.11	.18	08	01	.19	.06	.08	.10	.12	02	.08	01
	Conseq-Antisoc.	.14	.12	.06	.05	.250	.07	26	33 ^C	09	05	 13	31
т	Total Conseq.	.14	.17	00	.03	•25 ⁰	.08	11	13	.02	05	 03	18
	Feeling-Protag.	02	19	.09	9.04	.13	320	.08	00	.14	.02	.18	15
т	Feel-Nonprotag.	04	05	5.05	5.01	12	206	.07	06	09	.15	5.03	.21
	Means-Ends												
Е	Active Means	02	06	.03	08	.08	18	01	14	.02	04	.08	.00
	Passive Means	.12	.13	.06	.02	.12	.14	.14	.15	.10	01	.10	.18
S	Feeling-Protag.	.12	.08	.12	11	.09	.23	00	.08	.19	17	03	13
	Feel-Nonprotag.	03	.02	11	03	11	.19	16	.19 -	29	.09	 29 ·	12
т													
	Face Valid	.24	15	21	14	01	06	 15	04 -	15	14	11	04
aC	AAP Subscales: A.	Peer	Rela	tions	в, В.	Deper	ndency	, C. H	ostil	ity,			
	. Productivity, E				-					-			
pA	erbal ability was	a part	ialed	l out	of al	1 IPS	5 inte:	rview	corre	latio	ns.		
C	p≦.05, l-tailed.	d p≦	.01,	l-tai	iled.	T	Total &	sig. =	5%,				
								0					

Table VII. Home Adjustment and School IPS Correlations: Males

10	Home (ChIPS): ^a Pre-test (n=57) Post-test (n=41)												
Sc	1-	Total		В	С	D	Е	Total		В	С	D	Е
	OM-PI/C (18	r's > ±	,24)					(2					
	Alt. Solutions	.13	.20	.08	.26 ^C	.22 ^C	.27 ^C	.08	.17	.04	.26 ^C	.25	.17
Р	Alts./Variants	.29 ^C	.31 ^d	.26 ^C	.30 ^C	.28 ^C	.26 ^C	.27 ^C	.32 ^C	.19	.39 ^d	.34 ^C	.31 ^C
	Max.Effective	09 -	.08 -	.15 -	01 -	03 -	.01	06	05 -	17	.05	.02	.06
R	Consequence-Pro.	• 37 ^đ	.36 ^d	.32 ^đ	.33 ^d	.27 ^C	.33 ^d	.40 ^d	.43 ^d	.37 ^đ	.41 ^d	.33 ^C	.36 ^d
	Conseq-Antisoc.	.12	.12	.08	.13	.13	.12	.12	.21	.16	.22	.31 ^C	.03
Ε	Total Conseq.	.26 ^C	.28 ^C	.23 ^C	.27 ^C	.24 ^C	.26 ^C	.29 ^C	.37 ^d	.30 ^C	.37 ^d	.38 ^d	.21
	Feeling-Protag.	.01 -	.02	.04 -	07 -	01 -	13	08	.03 -	03	.08	.10	.03
т	Feel-Nonprotag.	.06	.04	.07	.02	.02	.04	.07 ·	05 -	00 -	08 -	.09 -	.05
	Means-Ends PS												
Е	Active Means	.09	.14	.10	.14	.10	.16	.02	.16	.17	.13	.06	.16
		13 -											
S	Feeling-Protag.	21 -	.16 -	.14 -	14 -	14 -	.09	30 ^C	05 -	01 -	08 -	03 -	.10
	Feel-Nonprotag.	.07	.00 -	.05	.04 -	.08	.17	06	03 -	02 -	04 -	.03 -	.04
Т									3		-		-
	Face Valid		.17	.09	.21	.22 ^C	.15	.38 ^d	.37 ^d	.25	.42 ^d	.30 ^C	.40 ^d
Ρ	OM-PI/C	(15)						(28	3)				
	Alt. Solutions	.10	.06 -	01					.18	.11	.21	.24	.10
0	Alts./Variants		.09		.13	-		.21	.20	.13	.23		.09
	Max.Effective	.27 ^C			-		_		.31 ^C		-	.15	.27 ^C
S	Consequence-Pro.	•25 ^C	.22 ^C	.07		.20	.37 ^d		.30 ^C		-	.30 ^C	
	Conseq-Antisoc.		.13	.09	.14	.18	.10	_	.32 ^C		-	.34 ^C	-
т	Total Conseq.				.27 ^C						.46 ^d		.38 ^a
	Feeling-Protag.	.04	.01	.03 -	00 -	04	.05	.01	01	.03 -	04 -	.11	.05
т	Feel-Nonprotag.	09 -	.07 -	.13 -	01	.08 -	.11	11 -	05 -	05 -	04 -	.02 -	.06
	Means-Ends												
Ε	Active Means												
	Passive Means												
S													
	Feel-Nonprotag.	09	.15 -	.13 -	13 -	20 -	.02	10 -	06 -	11 -	01 -	.03	.01
Т													-
	Face Valid							.30 ^C					.28 ^C
	hIPS subscales: A												
	. Consideration c								-				
	. Alternative Sol		-									avior	•
	erbal ability was	-				. IPS	inte	rview (correl	lation	ns.		
0	$p \leq .05$, 1-tailed.	u p≥.(01, 1	-tail	led.	50	Tota	lsig	= 29	20.			
						<u> </u>							

Table VIII. Home and School Interpersonal Problem Solving Correlations: Females

<pre>Passive Means .37d .40d .29^c .36d .47d .1006 .0701 .13 .2505 S Feeling-Protag15 .14 .10 .12 .19 .01 .29 .41^c .34^c .39^c .35^c .30 Feel-Nonprotag16111405 .041238^c38^c2343^c29446 T Face Valid040321 .13 .09 .13021105132004 P OM-PI/C (p) (/2) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437^c2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T</pre>	Table IX. Home a				nal Pi	merdor				s Mal	es
OM-PI/C (11 c ⁴ > ½, 24) (22) Alt. Solutions 33 ^C 27 ^C 28 ^C 18141440 ^C 3232 ^C 252225 P Alts./Variants 1309120208 .06050904110614 Max.Effective 12210726 ^C 1329 ^C 2330273022 R Consequence-Pro000704060604 .11 .0103 .05 .01 .05 Consequence-Pro000704060604 .11 .0103 .05 .01 .05 Consequence-Protag. .00050404 .0410051315080513 Feeling-Protag. .00050404 .0410051315080513 Feeling-Protag. .050519 .09 .08 .06021306151311 Means-Ends PS E E Active Means 32 ^C 202410031342 ^C 53d42 ^C 50d47d39 ^C Passive Means .37d .40d .29 ^C .36d .47d .1006 .0701 .13 .2505 S Feeling-Protag. .15 .14 .10 .12 .19 .01 .29 .41 ^C .34 ^C .39 ^C .35 ^C .30 Feel-Nonprotag16111405 .041238 ^C .2343 ^C 2944 ^C T Face Valid040321 .13 .09 .13021105132004 P OM-PI/C (p) (11 .0101 .042433 ^C .232120 .0529 Consequence-Pro1712 .0117042433 ^C .232120 .0529 Consequente-Protag					_	_				_	_
<pre>Alt. Solutions33^C27^C28^C18141440^C3232^C252225 P Alts./Variants1309120208 .06050904110614 Max.Effective12210726^C1329^C233027273022 R Consequence-Pro000704060604 .11 .0103 .05 .01 .05 Conseq-Antisoc01020300 .1213202423201027 E Total Conseq00050404 .0410051315080513 Feeling-Protag00050404 .0410051315080513 Feeling-Protag050519 .09 .08 .06021306151311 Means-Ends PS E Active Means32^C202410031342^C53d42^C50d47d39^C Passive Means 37d .40d .29^C .36d .47d .1006 .0701 .13 .2505 S Feeling-Protag15 .14 .10 .12 .19 .01 .29 .41^C .34^C .39^C .35^C .30 Feel-Nonprotag16111405 .041238^C .38^C .2343^C .2946d T Face Valid 040321 .13 .09 .13021105132004 P OM-PI/C (p) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro1.7120117042437^C .2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118090002 .02 .1008 Feeling-Protag0105121307 .04 .4 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .0703 .0108 .0212 T Feeling-Protag02 .13 .05 .15 .16 .0733^C .28 .1532^C .1936^C AChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration Alternatives and Feelings, D. Feeling Consideration, .E. Alternative solutions. Higher scores reflect more effective IPS behavior.<td></td><td></td><td></td><td>C</td><td>D</td><td>E</td><td></td><td>B</td><td>С</td><td>D</td><td>E</td></pre>				C	D	E		B	С	D	E
P Alts./Variants1309120208 .06050904110614 Max.Effective12210726 ^C 1329 ^C 233027273022 R Consequence-Pro000704060604 .11 .0103 .05 .01 .05 Conseq-Antisoc01020300 .1213202423201027 T Total Conseq00050404 .0410051315080513 Feeling-Protag00 .09 .02 .11 .1801100901141211 T Feel-Nonprotag050519 .09 .08 .06021306151311 Means-Ends PS E Active Means32 ^C 202410031342 ^C 53d42 ^C 50d47d39 ^G Passive Means 3.7d 40d .29 ^C .36d .47d .1006 .0701 .13 .2505 S Feeling-Protag15 .14 .10 .12 .19 .01 .29 .41 ^C .34 ^C .39 ^C .35 ^C .30 Feel-Nonprotag16111405 .041238 ^C 38 ^C 2343 ^C 29466 T Face Valid040321 .13 .09 .13021105132004 P OM-PI/C (p) (j) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437 ^C 2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118090002 .02 .1008 Feeling-Protag0109 .09050008 .0705 .0108 .0212 Means-Ends E Active Means0602 .10110118090002 .02 .1008 Feeling-Protag05121307 .14 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34 ^C .46d .50d .37 ^C .30 .33 ^C ^A ChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^b Verbal ability was partialed out of all IPS interview correlations. C. Consideration		/		C					C		
 Max.Effective12210726^C1329^C233027273022 R Consequence-Pro000704060604 .11 .0103 .05 .01 .05 Conseq-Antisoc01020300 .1213202423201027 E Total Conseq00050404 .04 .10051315080513 Feeling-Protag00 .09 .02 .11 .1801100901141211 T Feel-Nonprotag050519 .09 .08 .06021306151311 Means-Ends PS E Active Means32^C202410031342^C53d42^C .50d47d39^C Passive Means 37d .40d .29^C .36d .47d .1006 .0701 .13 .2505 S Feeling-Protag15 .14 .10 .12 .19 .01 .29 .41^C .34^C .39^C .35^C .30 Feel-Nonprotag16111405 .041238^C38^C2343^C2946C T Face Valid040321 .13 .09 .13021105132004 P OM-PI/C (𝔅) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437^C2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseg0802 .10110118090002 .02 .1008 Feeling-Protag0109050008 .0705 .01080212 T Feel-Nonprotag05121307 .14 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C A6d .50d .37^C .30 .33^C AChIPS											
 R Consequence-Pro000704060604 .11 .0103 .05 .01 .05 Conseq-Antisoc01020300 .1213202423201027 E Total Conseq00050404 .0410051315080513 Feeling-Protag00 .09 .02 .11 .1801100901141211 T Feel-Nonprotag050519 .09 .08 .06021306151311 Means-Ends PS E Active Means32^C202410031342^C53d42^C50d47d39^C Passive Means 3.7d .40d .29^C .36d .47d .1006 .0701 .13 .2505 S Feeling-Protag15 .14 .10 .12 .19 .01 .29 .41^C .34^C .39^O .35^C .30 Feel-Nonprotag16111405 .041238^C38^C2343^C2946d T Face Valid040321 .13 .09 .13021105132004 P OM-PI/C (p) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .081811 .08 .01 .0019 Max.Efective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437^C2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Pasive Means1004060108 .0702 .2010141707 S Feeling-Protag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^AChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^AVerbal ability was partialed out of all IFS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Al											
Conseq-Antisoc01020300 .1213202423201027 E Total Conseq00050404 .0410051315080513 Feeling-Protag00 .09 .02 .11 .1801100901141211 T Feel-Nonprotag050519 .09 .08 .06021306151311 Means-Ends PS E Active Means32 ^C 202410031342 ^C 53d42 ^C 50d47d39 ^C Passive Means 3.7d .40d .29 ^C .36d .47d .1006 .0701 .13 .2505 S Feeling-Protag15 .14 .10 .12 .19 .01 .29 .41 ^C .34 ^C .39 ^C .35 ^C .30 Feel-Nonprotag16111405 .041238 ^C 38 ^C 2343 ^C 2946d T Face Valid040321 .13 .09 .13021105132004 P OM-FI/C (p) (/z) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437 ^C 2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseg0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag05121307 .14 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .05141811200631 Passive Means100406 .0108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733 ^C 281532 ^C 1938 ^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34 ^C .46d .50d .37 ^C .30 .33 ^C ^a ChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^b Verbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, .E. Alternative Solutions, Higher scores reflect more effective IPS behavior.											
 E Total Conseq00050404 .0410051315080513 Feeling-Protag00 .09 .02 .11 .1801100901141211 T Feel-Nonprotag050519 .09 .08 .06021306151311 Means-Ends PS E Active Means32^C202410031342^C53d42^C50d47d39^C Passive Means .37d .40d .29^C .36d .47d .1006 .0701 .13 .2505 S Feeling-Protag15 .14 .10 .12 .19 .01 .29 .41^C .34^C .39^C .35^C .30 Feel-Nonprotag16111405 .041238^C38^C2343^C2946d T Face Valid040321 .13 .09 .13021105132004 P OM-PI/C (p) (12) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437^C2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0.802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0.05121307 .14 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1938^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ²ChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ¹Verbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, <	-										
 Feeling-Protag00 .09 .02 .11 .1801100901141211 T Feel-Nonprotag050519 .09 .08 .06021306151311 Means-Ends PS E Active Means32^C202410031342^C53d42^C50d47d39^C Passive Means .37d .40d .29^C .36d .47d .1006 .0701 .13 .2505 S Feeling-Protag15 .14 .10 .12 .19 .01 .29 .41^C .34^C .39^C .35^C .30 Feel-Nonprotag16111405 .041238^C38^C2343^C2946d T Face Valid040321 .13 .09 .13021105132004 P OM-PI/C (p) (/z) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437^C2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag02 .13 .05 .15 .16 .0733^C281532^C1938^C Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1938^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ²ChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ²Verbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feeling, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 	-										
 T Feel-Nonprotag050519 .09 .08 .06021306151311 Means-Ends PS E Active Means32^C202410031342^C53d42^C50d47d39^C Passive Means .37d .40d .29^C .36d .47d .1006 .0701 .13 .2505 S Feeling-Protag15 .14 .10 .12 .19 .01 .29 .41^C .34^C .39^C .35^C .30 Feel-Nonprotag16111405 .041238^C38^C2343^C2946d T Face Valid040321 .13 .09 .13021105132004 P OM-PI/C (p) (/2) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437^C2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118 .090002 .02 .1008 Feeling-Protag010909050008 .0705 .01080212 T Feel-Nonprotag051213 .0714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1936^C Feel-Nonprotag .15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Acce Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, .E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 	-										
 Means-Ends PS E Active Means32^C202410031342^C53d42^C50d47d39^C Passive Means .37d .40d .29^C .36d .47d .1006 .0701 .13 .2505 S Feeling-Protag15 .14 .10 .12 .19 .01 .29 .41^C .34^C .39^C .35^C .30 Feel-Nonprotag16111405 .041238^C38^C2343^C2946d T Face Valid040321 .13 .09 .13021105132004 P OM-PI/C (p) (/2) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437^C2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118 .090002 .02 .1008 Feeling-Protag010909050008 .0705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Fassive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1936^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T T core Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, .E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 											
 E Active Means32^C202410031342^C53d42^C50d47d39^C Passive Means .37d .40d .29^C .36d .47d .1006 .0701 .13 .2505 S Feeling-Protag15 .14 .10 .12 .19 .01 .29 .41^C .34^C .39^C .35^C .30 Feel-Nonprotag16111405 .041238^C38^C2343^C2946d T Face Valid040321 .13 .09 .13021105132004 P OM-PI/C (p) (/z) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437^C2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseg0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^C .281532^C .1938^C Feel-Nonprotag02 .13 .05 .15 .16 .0733^C .281532^C .1938^C Feel Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 		.050	519	.09	.08	.06	0213	06	15	13 ·	11
 Passive Means .37d .40d .29^c .36d .47d .1006 .0701 .13 .2505 S Feeling-Protag15 .14 .10 .12 .19 .01 .29 .41^c .34^c .39^c .35^c .30 Feel-Nonprotag16111405 .041238^c .38^c .2343^c .2946d T Face Valid040321 .13 .09 .13021105132004 P OM-PI/C (p) (/z) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437^c .2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseg0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^c .281532^c .1938^c Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^c .46d .50d .37^c .30 .33^c ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 		-					-		_		
 S Feeling-Protag15 .14 .10 .12 .19 .01 .29 .41^C .34^C .39^C .35^C .30 Feel-Nonprotag16111405 .041238^C38^C2343^C29466 T Face Valid040321 .13 .09 .13021105132004 P OM-PI/C (p) (/2) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437^C2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 	E Active Means										
Feel-Nonprotag16111405 .041238 ^C 38 ^C 2343 ^C 2946d T Face Valid040321 .13 .09 .13021105132004 P OM-PI/C () Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437 ^C 2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseg0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733 ^C 281532 ^C 1938 ^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34 ^C .46d .50d .37 ^C .30 .33 ^C ^a ChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^b Verbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, .E. Alternative Solutions. Higher scores reflect more effective IPS behavior.											
T Face Valid $040321 .13 .09 .13021105132004$ P OM-PI/C () Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro171201170424 37^{C} 2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34 ^C .46d .50d .37 ^C .30 .33 ^C ^a ChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^b Verbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, .E. Alternative Solutions. Higher scores reflect more effective IPS behavior.											
Face Valid 040321 .13 .09 .13 021105132004 P CM-PI/C (p) (/2) Alt. Solutions01 .06 .11 .0101 .04 24131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .08 18110811 .0019 Max.Effective 110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17 $120117042437^{C}2321200529$ Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq. $0802 .10110118 090002 .02 .1008$ Feeling-Protag010909050008 $0705 .01080212$ T Feel-Nonprotag. $0512130714 .04 .16 .12 .10 .1202 .24$ Means-Ends E Active Means $080619 .07 .07 .05 14181120 0631$ Passive Means $100406 0108 .07 02 10 0114 17 07$ S Feeling-Protag02 .13 .05 .15 .16 .07 $33^{C}28 15 32^{C}19 38^{C}$ Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^{C} .46d .50d .37^{C} .30 .33^{C} ^a ChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^b Verbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, , E. Alternative Solutions. Higher scores reflect more effective IPS behavior.	Feel-Nonprotag.	161	114	05	.04	12	38 ^C 38	c23	 43 ^c	 29 ·	 46d
 P OM-PI/C (p) (12) Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 	Т										
 Alt. Solutions01 .06 .11 .0101 .0424131608 .0216 O Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437^C2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 		< >	321	.13	.09	.13		05	13	20 .	04
 Alts./Variants00 .07 .05 .07 .03 .0818110811 .0019 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 Consequence-Pro17120117042437^C2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1938^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 	P OM-PI/C						(12)				
 Max.Effective110409 .0116 .19 .19 .08 .02 .11 .03 .18 S Consequence-Pro17120117042437^C2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1938^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 	Alt. Solutions	01 .0	6.11	.01	01	.04	2413	16	08	.02 .	16
 S Consequence-Pro17120117042437^C2321200529 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1938^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 	0 Alts./Variants	00 .0	7.05	.07	.03	.08	1811	08	11	.00 .	19
 Conseq-Antisoc01 .06 .1604 .0209 .22 .22 .17 .22 .21 .15 T Total Conseq0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1938^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 	Max.Effective	110	409	.01	16	.19	.19 .08	.02	.11	.03	.18
 T Total Conseq0802 .10110118090002 .02 .1008 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1938^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 	S Consequence-Pro	1712	201	17	04	24	37 ^C 23	21	20	 05 ·	29
 Feeling-Protag0109090500080705 .01080212 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1938^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 	Conseq-Antisoc.	.01 .0	6.16	04	.02	09	.22 .22	.17	.22	.21	.15
 T Feel-Nonprotag0512130714 .04 .16 .12 .10 .1202 .24 Means-Ends E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1938^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 	T Total Conseq.	0802	2.10	11	01	18	0900	02	.02	.10 -	08
Means-Ends E Active Means 080619 $.07$ $.05$ 141811200631 Passive Means 1004060108 $.07021001141707$ S Feeling-Protag. 02 $.13$ $.05$ $.16$ $.0733^{C}281532^{C}1938^{C}$ Feel-Nonprotag. $.15$ $.10$ $.07$ $.09$ $.06$ $.14$ $.17$ $.11$ $.19$ $.12$ $.19$ T Face Valid $.13$ $.06$ $.11$ $.0108$ $.11$ $.34^{C}$ $.46d$ $.50d$ $.37^{C}$ $.30$ $.33^{C}$ ^a ChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^b Verbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior.	Feeling-Protag.	.010	909	05	00	08	0705	.01	08	02 ·	12
 E Active Means080619 .07 .07 .05141811200631 Passive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1938^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 	T Feel-Nonprotag.	051	213	07	14	.04	.16 .12	.10	.12	02	.24
 Passive Means1004060108 .07021001141707 S Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1938^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 	Means-Ends										
 S Feeling-Protag02 .13 .05 .15 .16 .0733^C281532^C1938^C Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34^C .46d .50d .37^C .30 .33^C ^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^bVerbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. 	E Active Means	080	619	.07	.07	.05	1418	11	20	06 ·	31
Feel-Nonprotag15 .10 .07 .09 .09 .06 .14 .17 .11 .19 .12 .19 T Face Valid .13 .06 .11 .0108 .11 .34 ^C .46d .50d .37 ^C .30 .33 ^C ^a ChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^b Verbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior.	Passive Means	1004	406	01	08	.07	0210	01	14	17 .	07
T Face Valid .13 .06 .11 .0108 .11 .34 ^C .46d .50d .37 ^C .30 .33 ^C ^a ChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^b Verbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior.	S Feeling-Protag.	02 .1	3.05	.15	.16	.07	33 ^C 28	15	320	' 19 ·	38 ^C
Face Valid .13 .06 .11 .0108 .11 .34 ^C .46d .50d .37 ^C .30 .33 ^C ^a ChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^b Verbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior.	Feel-Nonprotag.	.15 .1	0.07	.09	.09	.06	.14 .17	.11	.19	.12	.19
^a ChIPS subscales: A. General Problem Solving, B. Consequential Thinking, ^b Verbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior.	Т										
^b Verbal ability was partialed out of all IPS interview correlations. C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior.	Face Valid	.13 .0	6.11	.01	08	.11	.34 ^C .46	d.500	a.37 ⁰	.30	.33 ^C
C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior.	^a ChIPS subscales:	A. General	l Probi	lem So	lving	, В. (Consequent	ial T	ninkir	ıg,	
E. Alternative Solutions. Higher scores reflect more effective IPS behavior.	^b Verbal ability wa	s partial	ed out	of al	ll IPS	5 inter	view corr	elatio	ons.		
E. Alternative Solutions. Higher scores reflect more effective IPS behavior. $d_{p=}^{<}.01$, 1-tailed. $c_{p=}^{<}.05$, 1-tailed. 51 Total Sig. = 12%, 51	C. Consideration	of Alterna	atives	and I	Feelir	ngs, D.	Feeling	Consid	derati	.on,	
$c_{p=}^{<.05, 1-tailed.}$ $d_{p=}^{<.01, 1-tailed.}$ 51 Total sig. = 12%, 51	E. Alternative So	lutions. 1	Higher	score	es rei	lect n	nore effec	tive :	IPS be	havio	r.
C p= 117	<.05, 1-tailed.	d <01	, 1-tai	iled.		τc 51	stal sig,=	12%	1		
	p=										

Table IX. Home and School Interpersonal Problem Solving Correlations: Males

Table X.	Home a	nd Sc	hool	and A	Adjust	ment	Correlation	ns: Fe	males	3	
Home (CAAP): ^a	Pre-te	st (n	=64)				Post-test	(n=46	5)		
School (CBR) ^b	Total	A	В	С	D	E	Total A	В	С	D	E
Pre-test	(41	-15 > ±	.24))			(3)	4)			
Teacher Ratings											
Problem Behvr.							.52 ^d .27 ^c				
Competency Beh.											
Likability							50 ^d 22				
Global Adjust.	50 ^d -	.33 ^d -	.38 ^d -	.33 ^d	51 ^d	.37 ^đ	51 ^d 16	40 ^d -	37 ^d -	54 ^d -	.29 ^C
Observer Ratings											
Problem Behvr.							.38 ^d .25 ^c				
Competency Beh.							45 ^d 35 ^d				
Likability							2015				
Global Adjust.	39 ^d -	.29 ^C -	.23 ^C -	28 ^C	37 ^d -	•36 ^d	36 ^d 21	39 ^d -	16 -	25 -	.31 ^C
Post-test	120	2					(33)			
Teacher Ratings	(30	/									
Problem Behvr.							.41 ^d .09				
Competency Beh.	33 ^d -	.17 -	.29 ^C -	- . 17 ·	39 ^d -	.21	2306	11 ·	26 ^C -	30 ^C -	.06
Likability							43 ^d 26 ^c				
Global Adjust.	42 ^d -	.31 ^d -	.29 ^C -	23 ^C	45 ^d -	.30 ^C	48 ^d 16	36 ^d	42 ^d -	49 ^d -	23
Observer Ratings											
Problem Behvr.							.49 ^d .18				
Competency Beh.											
Likability							37 ^d 27 ^c				
Global Adjust.	27 ^C -	.11 -	.12 -	30 ^d	23 ^C -	.25 ^C	37 ^d 19	21 ·	31 ^C -	30 ^C -	30 ^C

^aCAAP Subscales: A. Peer Relations, B. Dependency, C. Hostility,

D. Productivity, E. Withdrawal. Higher scores reflect maladjustment.

- ^b The first two are multi-item subscales; the third and fourth in each set are global ratings. c p≤.05, 1-tailed.
 Total Sig. = 78%.
 - 52

^d $p \leq .01$, 1-tailed.

Table XI	. Home a	nd Schoo	l and	Adjus	tmen	t Corre	elati	ons:	Males		
Home (CAAP): ^a	Pre-tes	t (n=52)				Post-t	est	(n=32	2)		
School (CBR) ^b	Total	A B	С	D	Е	Total	. A	В	С	D	E
Pre-test	(4r's	> + .24)			(15					
Teacher Ratings		,									
Problem Behvr.											
Competency Beh.	44 ^d	39 ^d 06	40 ^d	35 ^d -	.17	20	.12	10	27	16	24
Likability											
Global Adjust.	45 ^d	36 ^d 08	34 ^d	40 ^d -	.15	34 ^C	.03	21	35 ^C	23 ·	41 ^C
Observer Ratings											
Problem Behvr.	.16 .	0211	.21	.32 ^d	.08	.31 ^C -	08	.23	.26	.33 ^C	.25
Competency Beh.	.16	07 .04	 15 ·	17 -	.11	23	.17	16	19	33 ^C	20
Likability	08	07 .21	22	04 -	.14	11	.26	.01	29	14 ·	20
Global Adjust.	10	07 .15	07 ·	19 -	.11	24	.30	10	30	34 ^C	31 ^C
Post-test	(19)						CIN				
Teacher Ratings											
Problem Behvr.											
Competency Beh.	45 ^d	37 ^d 10	41 ^d	37 ^d -	.12	20	.03	.05	28	 25 ·	21
Likability						12 -					
Global Adjust.	48 ^d	38 ^d 11	34 ^d	41 ^d -	.18	29 -	21	08	12	21 ·	36 ^C
Observer Ratings											
Problem Behvr.	.09 .	2021	.16	.18	.04	01 -	22	13	.10	.17	.02
Competency Beh.	21	22 .10	24 ^C	18 -	.12	.05	.22	.18	.01	09 ·	08
Likability	21	26 ^C .14	38 ^d	05 -	.17	04	.10	.12	26	.07 ·	18
Global Adjust.	22	36 ^d .15	19	17 -	.18	.13	.22	.26	03	.09	10

^aCAAP Subscales: A. Peer Relations, B. Dependency, C. Hostility,

D. Productivity, E. Withdrawal. Higher scores reflect maladjustment.

^b The first two are multi-item subscales; the third and fourth in each set are global ratings.

^c $p \leq .05$, 1-tailed.

Total sig.=22%.

^d $p \leq .01$, 1-tailed.

Table XII.	Home I	PS and S	chool	Adjus	stment	Corre	elati	ons:	Femal	es	
Home (ChIPS):	Pre-te	st (n=52	?)			Post	-test	(n=3	2)		
<u>School (CBR)</u> b	Total	A B	С	D	E	Tota	1 A	В	С	D	Е
Pre-test	(19)	-15 >+.	24)			((7)				
Teacher Ratings	8						*				
Problem Behvr.	41 ^d	36 ^d 22 ^c	43 ^d -	.42 ^d -	38 ^d	37 ^d	29 ^C	27 ^C	26	^C 26 ^C	16
Competency Beh.	.40 ^d .	33 ^d .19	.40 ^đ	.32 ^đ	.42 ^d	.24	.14	.14	.12	.14	.04
Likability	.26 ^C .	24 ^C .13	.31 ^đ	.33 ^d	.25 ^C	.24	.14	.13	.13	.25 ^C	07
Global Adjust.	.34 ^d .	27 ^C .13	.35 ^d	.33 ^đ	.32 ^đ	.30 ^C	.22	.21	.20	.24	.07
Observer Ratings											
Problem Behvr.	.03	0711	02 -	- 00 -	07	.03 ·	05	12	.02	05	.10
Competency Beh.	.07 .	05 .03	.06 -	.01	.17	.01	.06	.07	.05	.07	.02
Likability	.04	0406	00 -	.10	.14	12	11	08	11	08	11
Global Adjust.	.11 .	12 .04	.19	.09	.33 ^đ	.01	.09	.08	.08	.04	.10
Post-test	(18)						(10				
Teacher Ratings	(18)						CIU				
Problem Behvr.	31 ^d	24 ^C 12	32 ^đ -	.31 ^d	29 ^C	26 ^C	23	23	20	23	08
Competency Beh.	.23 ^C .	18 .08	.25 ^C	.23 ^C	.22 ^C	.12	.09	.07	.10	.15	02
Likability	.25 ^C .	.30 ^d .16	.38 ^d	.39 ^d	.30 ^đ	.19	.20	.18	.20	.21	.09
Global Adjust.	.29 ^C .	21 .12	.27 ^C	.28 ^C	.25 ^C	.24	.21	.24	.16	.20	.03
Observer Ratings											
Problem Behvr.	16	1309	17 -	.17 -	.19	29 ^C	22	28 ^C	14	21	01
Competency Beh.	.28 ^C .	21 ^C .13	.26 ^C	.25 ^C	.25 ^C	.32 ^C	.32 ^C	.330	.27	.28 ^C	.15
Likability	.12	0102	.01	.05	.03	.17	.10	.14	.05	.18	13
Global Adjust.	.19 .	0803	.19	.21	.20	.29 ^C	.21	.22	.17	.27 ^C	02

^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking,

C. Consideration of Alternatives and Feelings, D. Feeling Consideration,

E. Alternative Solutions. Higher scores reflect more effective IPS behavior.

^b The first two are multi-item subscales; the third and fourth in each set are

global ratings. $c_{p\leq.05, 1-tailed}$. Total sig. = 32%.

d p \leq .01, 1-tailed.

Table XIII. Home IPS and School Adjustment Correlations: Males
Home (ChIPS): ^a Pre-test (n=52) Post-test (n=32)
<u>School (CBR)^b Total A B C D E Total A B C D E</u>
Pre-test $(27(5) \pm .24)$ (17)
Teacher Ratings
Problem Behvr54d45d27 ^C 48d35d44d40 ^C 36 ^C 53d1830 ^C 02
Competency Beh37d .31 ^C .17 .35d .19 .39d .22 .22 .37 ^C .06 .13 .01
Likability $.30^{\circ} .27^{\circ} .12 .34d .30^{\circ} .25^{\circ}0706 .08160026$
Global Adjust40d .40d .26 ^C .40d .27 ^C .39d .22 .25 .36 ^C .12 .14 .09
Observer Ratings
Problem Behvr22231127 ^C 1729 ^C 2024202439 ^C 03
Competency Beh24 ^C .22 .15 .23 .14 .23 .26 .26 .20 .26 .37 ^C .07
Likability .23 .19 .17 .16 .13 .14 .19 .18 .23 .11 .2002
Global Adjust28 ^C .25 ^C .11 .31 ^C .24 ^C .27 ^C .25 .26 .28 .21 .31 ^C .05
Post-test
Teacher Ratings (27) (12)
Problem Behvr43d46d37d42d26 ^C 42d33 ^C 37 ^C 47d2435 ^C 09
Competency Beh41d .41d .31 ^C .39d .28 ^C .34d .30 ^C .36 ^C .49d .20 .36 ^C 03
Likability .33 ^C .32 ^C .18 .36d .23 .36d .10 .10 .16 .04 .2014
Global Adjust41d .44d .30 ^C .44d .26 ^C .46d .23 .30 ^C .31 ^C .26 .35 ^C .10
Observer Ratings
Problem Behvr221410141409121125 .0111 .10
Competency Beh32 ^C .23 .21 .19 .14 .17 .06 .05 .09 .01 .0706
Likability .25 ^c .17 .11 .18 .19 .090503 .0307 .1322
Global Adjust32 ^c .21 .09 .26 ^c .25 ^c .17 .0303 .13140122

^aChIPS subscales: A. General Problem Solving, B. Consequential Thinking,

C. Consideration of Alternatives and Feelings, D. Feeling Consideration,

E. Alternative Solutions. Higher scores reflect more effective IPS behavior.

^b The first two are multi-item subscales; the third and fourth in each set are global ratings.

^c $p \leq .05$, 1-tailed.

Total sig = 40%.

d p \leq .01, 1-tailed.

Home:	Adjustmen	t (CAAP					_		PS Sc	cale):b
School: ^C	Total A	В	C D	Е	Total		В	С		E
P OM-PI/C:										
R Alt. Solutions	;2122	08	1620	11	.15	.20	.16	.17	.09	.13
0 Alts./Variants	; 09 15	.03	1005	06	.13	.14	.14	.11	.09	.02
B Max.Effective	1317	.08	1725	.05	, 26 ^d	.19	.24	.14	12	.28 ^d
L Conseq-Prosoc.	2003	.03	1729	³ 05	.18	.15	.05	.21	.18	.15
E Conseq-Antisoc	47 ^e 24	34 ^d	45 ^e 33 ^c	³ 31 ^d	.21	.30 ^d	.15	.38 ^e	.23	•33 ^d
M Totl.Consequer					.22	.26 ^d	.12	.34 ^d	.23	.27 ^d
Feeling-Protag	1414	.08	11 .12	.32 ^d	03 ·	03	.01	06	11	.02
S Feel-Nonprotag		02 .	12 .13	.07	07	.01	.04	06	12	.01
0 Means-Ends PS:										
L Active Means	.10 .14	08	09.14	.25	.15	.19	.20	.12	.16	.04
V Passive Means	.1613	06 .	03.09	.38 ^e	.08	.00	.03	.02	04	.06
I Feeling-Protag		.28 ^d .	11 .12	.16	12	10	.03	20	07	21
N Feel-Nonprotag		07 .	19 .07	01	07	.05	04	.11	.17	.00
G										
Face Valid:	.0311	.14 .	03 .10	12	.20	.18	.16	.15	03	.24
A Teacher Ratings		_								
D Problem Behvr.	0828	d11 .	2407	.01	.09	09	09	03	12	.09
J Competency Beh	1	.25	17 .08	.20	.01	.08	.01	.10	.11	.03
-	.0225			.23	10	.04	.09	01	22	.22
S Global Adjust.	1601	09	29 ^d 07	.01	05	.10	.13	.02	.01	02
T Observer Rating		1.4			-		_			
M Problem Behvr.					29 ^d	_			10	.06
E Competency Beh					.27 ^d	.28 ^d	.36 ^e	.15	.11	.08
N Likability	35 ^d 41	e07	37 ^e 21	18				.16		
T Global Adjust.	2418	01	2125	17	.33 ^d	.26	.32 ^d	.12	.23	13

Table XIV. Post-test Correlations Partialling Both Pretest Variables: Females

^aCAAP Subscales: A. Peer Relations, B. Dependency, C. Hostility,

D. Productivity, E. Withdrawal. Higher scores reflect maladjustment.

^bChIPS subscales: A. General Problem Solving, B. Consequential Thinking,

C. Consideration of Alternatives and Feelings, D. Feeling Consideration,

E. Alternative Solutions. Higher scores reflect more effective IPS behavior.

^CVerbal ability was partialed out of all IPS interview correlations. The degrees of freedom are 38 for the IPS measure and 40 for adjustment.

56

^d $p \leq .05$, 1-tailed.

e p≦.01, 1-tailed.

	Home:	Adjustmen					ving (C	hIPS So	cale):b
Sc	chool: ^C	Total A			E Tota			D	
P	OM-PI/C								
R	Alt. Solutions	.0509	.12 .2	9 .05	1419	16 -	.210	3.11	15
0	Alts./Variants	.0406	.13 .1	3 .04	1428	21 -	.181	3.00	21
В	Max.Effective	1316	11 .1	819	.30	.13	.07 .1	1.09	.09
L	Conseq-Prosoc.	.02 .01	.15 .0	7 .01	1340	³ 23 -	.261	706	23
Е	Conseq-Antisoc	2236	d07 .1	904	32 .40	a.42 ^d	.24 .4	3 ^d .34 ^d	^d .39 ^d
М	Totl.Consequen	1531	.02 .1	301	2502	.09 -	.02 .1	5.17	.07
	Feeling-Protag	12 .11	.110	0.13	0209	.01	.080	701	09
S	Feel-Nonprotag	1302	13 .1	8.13.	34 ^d .22	.26	.23 .1	7.04	.25
0	Means-Ends PS:								-
\mathbf{L}	Active Means	0411	03 .0	0.02.			.032		
V		.13 .15			-		.061		
Ι	Feeling-Protag	15 .01	.121	815			.174		
N	Feel-Nonprotag	18 .22	31 .1	428	33 .12	.20	.11 .2	4.12	.28
G									
	Face Valid:	.02 .07	000	307 .	.35	.63 ^e	.55 ^e .5	4 ^e .51 ^e	• .39 ^a
A	Teacher Ratings								
D	Problem Behvr.			7.27.			.091		-
J	Competency Beh						.23 .1		
U	Likability	.06 .07		002					20
S	Global Adjust.		.15 .3	2 ^d .02	0603	.04 -	.01 .1	3.34	14
Т	Observer Rating								-
М	Problem Behvr.						.18 .2		
Ε	Competency Beh					_	.192		
N	Likability			9.24	7		.192		_
Т	Global Adjust.	.65 ^e .23	.51 ^e .5	3 ^e .56 ^e .	35 ^u 43 ^u	46 ^e -	.145	1 ^e 42 ^c	41 ^u

Table XV. Post-test Correlations Partialling Both Pretest Variables: Males

^aCAAP Subscales: A. Peer Relations, B. Dependency, C. Hostility, D. Productivity, E. Withdrawal. Higher scores reflect maladjustment. ^bChIPS subscales: A. General Problem Solving, B. Consequential Thinking, C. Consideration of Alternatives and Feelings, D. Feeling Consideration, E. Alternative Solutions. Higher scores reflect more effective IPS behavior. ^CVerbal ability was partialed out of all IPS interview correlations. The degrees of freedom are 24 for the IPS measure and 28 for adjustment. d $p \leq .05$, 1-tailed. 57 Total sig. = $17\%_{41}$

		Home Me	asures			
ChIPS Scale: ^a	Total	A	В	С	D	Е
CAAP Scale:						
Females (df=40):						
Total	37 ^C	38 ^C	37 ^C	28 ^b	12	22
Subscales:						
A. Peer Relations	06	14	09	14	.05	25
B. Dependency	40 ^C	40 ^C	42 ^C	26 ^b	25	11
C. Hostility	37 ^C	38 ^C	45 ^C	27 ^b	23	16
D. Productivity	34 ^b	27 ^b	22	25	.01	36c
E. Withdrawn	12	16	11	13	12	01
Males (df=28):						
Total	44^{C}	42 ^b	38 ^b	46 ^C	44 ^C	30
Subscales:						
A. Peer Relations	23	17	09	23	33 ^b	13
B. Dependency	51 ^C	45 ^C	35 ^b	46 ^C	50 ^C	50 ^C
C. Hostility	34 ^b	19	27	12	14	15
D. Productivity	45 ^C	42 ^b	47 ^C	35 ^b	26	31
E. Withdrawn	.15	.15	.11	16	17	13

Table XVI. Post-test Correlations Partialling both Pretest Variables:

^aChIPS Scale: A. General Problem Solving, B. Consequential Thinking,

C. Consideration of Alternatives and Feelings, D. Feeling Consideration,

E. Alternative Solutions. Higher scores reflect more effective IPS behavior. b p $\leq.05,$ 1-tailed.

^c $p \leq .01$, 1-tailed.

Table XVI					1 Home	P IPS					es	
Females	Pre-te	est (r	(65=מ				Post-t	est	(n=46))		
ChIPS Scale	Total	A	В	С	D	E	Total	A	B	С	D	E
CAAP Scale: ^b	(0 C	1	- ali	\ \			(-	36)				
Pre-test (n=65)	(35)	<u></u>	5,29,	/ _	-	7	ר		-	-	-	7
Total	.64 ^d	.66 ^d	.55 ^d	.64 ^d	•55 ^d	•59 ^d	.61 ^d	.61 ^d	•55 ^d	.57 ^d	.48 ^d	.49 ^d
Subscales:	_	_	_	_	_	_	_	_	-	_		
A. Peer Relations	₅ .50 ^d	.54 ^d	.43 ^d	• 55 ^d	.51 ^d	•46 ^d	.49 ^d	.47 ^d	.43 ^d	• 43 ^d	•33 ^C	.40 ^d
B. Dependency	56 ^d	Add	20d	_41d	30d	.43 ^d	₅₁ d	15d	¹¹ d	- 10d	27 ^C	11d
C. Hostility	. 48 ^d	.49 ^d	.50 ^đ	.40 ^d	.40 ^d	•34 ^d	.44 ^d	.50 ^d	.46 ^d	.46 ^d	.33 ^C .27 ^C .43 ^d	.34 ^C
D. Productivity	.46 ^d	.59 ^d	.50 ^d .51 ^d	.55 ^d	45 ^d	.52 ^d	.34 ^d	.46 ^d	.48 ^d	-39 ^d	43 ^d 36 ^d 36 ^d	.29 ^C
E. Withdrawal	-38 ^d	34d	.17	43 ^d	.34 ^d	.44 ^d	48 ^d	,39 ^d	-28 ^C	-43 ^d	-36 ^d	.37 ^d
Post-test (n=46)	(22)		• - /				(3:	2)				
Total	.44 ^d	42d	.34 ^C	42d	46 ^d	30C	60 ^d	d	56d	52d	.45 ^d	41d
Subscales:		. 14	• 5 1	. 14	. 10	. 50		• 50		. 52	.10	• 11
A. Peer Relations	- 36d	22d	27 ^C	36d	35d	20 ^C	Dac	37d	33C	32d	.21	⊿ıd
B. Dependency			.13			.18	• 50 15d	• J7	d	• JJ	27C	.41 27C
	.36 ^d	.10 26d	.41 ^d	-10	21C	.05	.45 51d	-42 5/d	.40		.27 ^C .44 ^d	• 27
C. Hostility	.30 .47 ^d	• 20	.39 ^d	.24	• 34 5 nd	.05 .35 ^d	- DT	• 54	.00	• 41 17d	.44 .39 ^d	.21
D. Productivity E. Withdrawal			02								• 39 • 30 ^C	
		.10 -	02	.19	• 22	.13	.32	.20	• 1 /	. 29	.30	• 1 /
Total sig= 8	170.											
Males	Pre-te	est (1	n=50)				Post-t	est ((n=32))		
ChIPS Scale (a)	Total	А	В	С	D	Е					D	E
ChIPS Scale (a)	Total	А	В	С	D	E	Total	A			D	E
ChIPS Scale (a)	Total	A 5'5>	B ±,24	с))			Total	A 9)	В	С		
	Total	A 5'5>	B ±,24	с))		Е • 42 ^d	Total	A 9)	В	С	D.41 ^d	
ChIPS Scale (a) CAAP Scale: ^b Pre-test (n=50) Total Subscales:	Total (18 .47 ^d	A $r'_{s} >$ $\cdot 45^{d}$	в ±,24 .34 ^d	 .43 ^d	.28 ^C	•42 ^đ	Total	A 9) .46 ^d	в .37 ^с	С		
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total	Total (18 .47 ^d	A $r'_{s} >$ $\cdot 45^{d}$	в ±,24 .34 ^d	 .43 ^d	.28 ^C		Total (14 .44 ^d .23	A 9) .46 ^d .18	B .37 ^C .18	C.46 ^d	.41 ^d	.40 ^C
ChIPS Scale (a) CAAP Scale: ^b Pre-test (n=50) Total Subscales:	•Total (18 .47 ^d 5 .47 ^d .10	A $\checkmark ' \le >$ $\cdot 45^{d}$ $\cdot 37^{d}$ $\cdot 07$	B ± ,24 .34 ^d .24 ^c .11	 .43 ^d .37 ^d .03 -	.28 ^C .42 ^d	•42 ^đ	Total (1 .44 ^d	A (7) .46 ^d .18 .41 ^d	B .37 ^C .18 .26	.46 ^d .15 .47 ^d	.41 ^d .22 .20	.40 ^C .06 .58 ^d
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total Subscales: A. Peer Relations	• Total	$\begin{array}{c} A \\ \overline{} & \overline{} \\ \cdot & 45^{d} \\ \cdot & 37^{d} \\ \cdot & 07 \\ \cdot & 45^{d} \end{array}$	B ± ,24 .34 ^d .24 ^c .11 .55 ^d	 .43 ^d .37 ^d .03 -	.28 ^C .42 ^d	•42 ^d	Total (14 .44 ^d .23	A (7) .46 ^d .18 .41 ^d	B .37 ^C .18 .26	.46 ^d .15 .47 ^d	.41 ^d .22 .20	.40 ^C .06 .58 ^d
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total Subscales: A. Peer Relations B. Dependency C. Hostility	• Total	$\begin{array}{c} A \\ \overline{} & \overline{} \\ \cdot & 45^{d} \\ \cdot & 37^{d} \\ \cdot & 07 \\ \cdot & 45^{d} \end{array}$	B ± ,24 .34 ^d .24 ^c .11 .55 ^d	 .43 ^d .37 ^d .03 -	•28 ^C •42 ^d •14 •19	.42 ^d .17 .20 .17	Total (10 .44 ^d .23 .44 ^d	A 9) .46 ^d .18	B .37 ^C .18 .26 .43 ^d	.46 ^d .15 .47 ^d	.41 ^d	•40 ^C •06 •58 ^d •07
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total Subscales: A. Peer Relations B. Dependency	• Total (17 .47 ^d .47 ^d .10 .39 ^d .42 ^d	A √ ['] ['] ₅ > .45 ^d .37 ^d .07 .45 ^d .41 ^d	B ± , 24 .34 ^d .24 ^c .11 .55 ^d .17	 .43 ^d .37 ^d .03 - .22	•28 ^C •42 ^d •14 •19	.42 ^d .17 .20	Total (1. .44 ^d .23 .44 ^d .29 .17 .13	A 9) .46 ^d .18 .41 ^d .31 ^c .25 .09	B .37 ^C .18 .26 .43 ^d .09 .05	C .46 ^d .15 .47 ^d .16 .32 ^C .10	.41 ^d .22 .20 .38 ^c .25 .08	.40 ^C .06 .58 ^d .07 .33 ^C .09
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total Subscales: A. Peer Relations B. Dependency C. Hostility D. Productivity E. Withdrawal	• Total $\langle 1\%$.47 ^d .47 ^d .10 .39 ^d .42 ^d 02	A √'s > .45 ^d .37 ^d .07 .45 ^d .41 ^d .04 -	B ± ,24 .34 ^d .24 ^c .11 .55 ^d .17 21	c .43 ^d .37 ^d .03 - .22 .49 ^d .12	.28 ^C .42 ^d .14 .19 .34 ^d .03	.42 ^d .17 .20 .17 .48 ^d .17	Total (1. .44 ^d .23 .44 ^d .29 .17 .13	A 9) .46 ^d .18 .41 ^d .31 ^c .25 .09	B .37 ^C .18 .26 .43 ^d .09 .05	C .46 ^d .15 .47 ^d .16 .32 ^C .10	.41 ^d .22 .20 .38 ^c .25 .08	.40 ^C .06 .58 ^d .07 .33 ^C .09
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total Subscales: A. Peer Relations B. Dependency C. Hostility D. Productivity E. Withdrawal Post-test (n=32)	• Total $\langle 1\%$.47 ^d .47 ^d .10 .39 ^d .42 ^d 02	A √'s > .45 ^d .37 ^d .07 .45 ^d .41 ^d .04 -	B ± ,24 .34 ^d .24 ^c .11 .55 ^d .17 21	c .43 ^d .37 ^d .03 - .22 .49 ^d .12	.28 ^C .42 ^d .14 .19 .34 ^d .03	.42 ^d .17 .20 .17 .48 ^d .17	Total (1. .44 ^d .23 .44 ^d .29 .17 .13	A 9) .46 ^d .18 .41 ^d .31 ^c .25 .09	B .37 ^C .18 .26 .43 ^d .09 .05	C .46 ^d .15 .47 ^d .16 .32 ^C .10	.41 ^d .22 .20 .38 ^c .25 .08	.40 ^C .06 .58 ^d .07 .33 ^C .09
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total Subscales: A. Peer Relations B. Dependency C. Hostility D. Productivity E. Withdrawal Post-test (n=32) Total	• Total $\langle 1\%$.47 ^d .47 ^d .10 .39 ^d .42 ^d 02	A √'s > .45 ^d .37 ^d .07 .45 ^d .41 ^d .04 -	B ± ,24 .34 ^d .24 ^c .11 .55 ^d .17 21	c .43 ^d .37 ^d .03 .22 .49 ^d .12	.28 ^C .42 ^d .14 .19 .34 ^d .03	.42 ^d .17 .20 .17 .48 ^d	Total (1. .44 ^d .23 .44 ^d .29 .17 .13	A 9) .46 ^d .18 .41 ^d .31 ^c .25 .09	B .37 ^C .18 .26 .43 ^d .09 .05	C .46 ^d .15 .47 ^d .16 .32 ^C .10	.41 ^d .22 .20 .38 ^c .25	.40 ^C .06 .58 ^d .07 .33 ^C .09
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total Subscales: A. Peer Relations B. Dependency C. Hostility D. Productivity E. Withdrawal Post-test (n=32) Total Subscales:	•Total (18 .47 ^d .47 ^d .10 .39 ^d .42 ^d 02 (27 .38 ^c	A √'s > .45 ^d .07 .45 ^d .41 ^d .04 -) .59 ^d	B ± ,24 .34 ^d .24 ^c .11 .55 ^d .17 21 .35 ^c	c .43 ^d .37 ^d .03 - .22 .49 ^d .12 .63 ^d	• 28 ^C • 42 ^d • 14 • 19 • 34 ^d • 03 • 42 ^d	.42 ^d .17 .20 .17 .48 ^d .17 .56 ^d	Total (1. .44 ^d .23 .44 ^d .29 .17 .13 (2 .58 ^d .21	A 9) .46 ^d .18 .41 ^d .31 ^c .25 .09 .68 ^d .30 ^c	B .37 ^C .18 .26 .43 ^d .09 .05 .53 ^d	C .46 ^d .15 .47 ^d .16 .32 ^c .10 .68 ^d .68 ^d	.41 ^d .22 .20 .38 ^c .25 .08 .62 ^d	• 40 ^C • 06 • 58 ^d • 07 • 33 ^C • 09 • 56 ^d
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total Subscales: A. Peer Relations B. Dependency C. Hostility D. Productivity E. Withdrawal Post-test (n=32) Total Subscales: A. Peer Relations	•Total (18 .47 ^d .47 ^d .10 .39 ^d .42 ^d 02 (27 .38 ^c s .12	A	$ B \pm , 24^{c} , 24^{c} .11.55d.17.21.35c.12$	c .43 ^d .37 ^d .03 - .22 .49 ^d .12 .63 ^d .37 ^c	.28 ^C .42 ^d .14 .19 .34 ^d .03 .42 ^d .37 ^C	.42 ^d .17 .20 .17 .48 ^d .17 .56 ^d .20	Total (1. .44 ^d .23 .44 ^d .29 .17 .13 (2 .58 ^d .21	A 9) .46 ^d .18 .41 ^d .31 ^c .25 .09 .68 ^d .30 ^c	B .37 ^C .18 .26 .43 ^d .09 .05 .53 ^d	C .46 ^d .15 .47 ^d .16 .32 ^c .10 .68 ^d .68 ^d	.41 ^d .22 .20 .38 ^c .25 .08 .62 ^d	• 40 ^C • 06 • 58 ^d • 07 • 33 ^C • 09 • 56 ^d
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total Subscales: A. Peer Relations B. Dependency C. Hostility D. Productivity E. Withdrawal Post-test (n=32) Total Subscales: A. Peer Relations B. Dependency	• Total (18 .47 ^d .47 ^d .10 .39 ^d .42 ^d 02 (27 .38 ^c s .12 .21	A	$ B \pm , 24^{c} , 34^{d} . 24c . 11 . 55d . 17 21 . 35c . 12 . 18$	c .43 ^d .37 ^d .03 - .22 .49 ^d .12 .63 ^d .37 ^c .36 ^c	• 28 ^C • 42 ^d • 14 • 19 • 34 ^d • 03 • 42 ^d • 37 ^C • 06	.42 ^d .17 .20 .17 .48 ^d .17 .56 ^d .20 .50 ^d	Total (1. .44 ^d .23 .44 ^d .29 .17 .13 (2 .58 ^d .21	A 9) .46 ^d .18 .41 ^d .31 ^c .25 .09 .68 ^d .30 ^c	B .37 ^C .18 .26 .43 ^d .09 .05 .53 ^d	C .46 ^d .15 .47 ^d .16 .32 ^c .10 .68 ^d .68 ^d	.41 ^d .22 .20 .38 ^c .25 .08 .62 ^d	• 40 ^c • 06 • 58 ^d • 07 • 33 ^c • 09 • 56 ^d
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total Subscales: A. Peer Relations B. Dependency C. Hostility D. Productivity E. Withdrawal Post-test (n=32) Total Subscales: A. Peer Relations B. Dependency C. Hostility	• Total (18 .47 ^d .47 ^d .10 .39 ^d .42 ^d 02 (27 .38 ^c s .12 .21	A	$ B \pm , 24^{c} , 34^{d} . 24c . 11 . 55d . 17 21 . 35c . 12 . 18$	c .43 ^d .37 ^d .03 - .22 .49 ^d .12 .63 ^d .37 ^c .36 ^c	• 28 ^C • 42 ^d • 14 • 19 • 34 ^d • 03 • 42 ^d • 37 ^C • 06	.42 ^d .17 .20 .17 .48 ^d .17 .56 ^d .20 .50 ^d	Total (1. .44 ^d .23 .44 ^d .29 .17 .13 (2 .58 ^d .21	A 9) .46 ^d .18 .41 ^d .31 ^c .25 .09 .68 ^d .30 ^c	B .37 ^C .18 .26 .43 ^d .09 .05 .53 ^d	C .46 ^d .15 .47 ^d .16 .32 ^c .10 .68 ^d .68 ^d	.41 ^d .22 .20 .38 ^c .25 .08 .62 ^d	• 40 ^C • 06 • 58 ^d • 07 • 33 ^C • 09 • 56 ^d
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total Subscales: A. Peer Relations B. Dependency C. Hostility D. Productivity E. Withdrawal Post-test (n=32) Total Subscales: A. Peer Relations B. Dependency C. Hostility D. Productivity	•Total (18 .47 ^d .47 ^d .10 .39 ^d .42 ^d 02 (27 .38 ^c .12 .21 .13 .36 ^c	A 5 's > .45 ^d .07 .45 ^d .04 .41 ^d .04 .59 ^d .30 ^c .32 ^c .38 ^c .38 ^c .45 ^d	$\begin{array}{c} B \\ \pm , 24 \\ .34^{d} \\ .24^{c} \\ .11 \\ .55^{d} \\ .17 \\21 \\ .35^{c} \\ .12 \\ .18 \\ .38^{c} \\ .22 \end{array}$	c .43 ^d .37 ^d .03 - .22 .49 ^d .12 .63 ^d .36 ^c .36 ^c .26 .52 ^d	.28 ^C .42 ^d .14 .19 .34 ^d .03 .42 ^d .37 ^C .06 .30 ^C .37 ^C	.42 ^d .17 .20 .17 .48 ^d .17 .56 ^d .20 .50 ^d .11 .44 ^d	Total (14 .44 ^d .23 .44 ^d .29 .17 .13 (2 .58 ^d .21 .61 ^d .30 ^c .48 ^d	$\begin{array}{c} A \\ 9 \\ \cdot 46^{d} \\ \cdot 18 \\ \cdot 41^{d} \\ \cdot 25 \\ \cdot 09 \\ \cdot 68^{d} \\ \cdot 30^{c} \\ \cdot 64^{d} \\ \cdot 37^{c} \\ \cdot 55^{d} \end{array}$	B .37 ^C .18 .26 .43 ^d .09 .05 .53 ^d .15 .43 ^d .45 ^d .45 ^d	C .46 ^d .15 .47 ^d .16 .32 ^c .10 .68 ^d .36 ^c .69 ^d .24 .54 ^d	.41 ^d .22 .20 .38 ^c .25 .08 .62 ^d .44 ^d .53 ^d .40 ^c .41 ^c	.40 ^C .06 .58 ^d .07 .33 ^C .09 .56 ^d .20 .75 ^d .05 .48 ^d
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total Subscales: A. Peer Relations B. Dependency C. Hostility D. Productivity E. Withdrawal Post-test (n=32) Total Subscales: A. Peer Relations B. Dependency C. Hostility D. Productivity E. Withdrawal	•Total (18 .47 ^d .47 ^d .10 .39 ^d .42 ^d 02 (27 .38 ^c .12 .21 .13 .36 ^c	A 5 's > .45 ^d .07 .45 ^d .04 .41 ^d .04 .59 ^d .30 ^c .32 ^c .38 ^c .38 ^c .45 ^d	$ B \pm , 24^{c} , 34^{d} . 24c . 11 . 55d . 17 21 . 35c . 12 . 18$	c .43 ^d .37 ^d .03 - .22 .49 ^d .12 .63 ^d .36 ^c .36 ^c .26 .52 ^d	.28 ^C .42 ^d .14 .19 .34 ^d .03 .42 ^d .37 ^C .06 .30 ^C .37 ^C	.42 ^d .17 .20 .17 .48 ^d .17 .56 ^d .20 .50 ^d	Total (1. .44 ^d .23 .44 ^d .29 .17 .13 (2 .58 ^d .21 .61 ^d .30 ^c .48 ^d	$\begin{array}{c} A \\ 9 \\ \cdot 46^{d} \\ \cdot 18 \\ \cdot 41^{d} \\ \cdot 25 \\ \cdot 09 \\ \cdot 68^{d} \\ \cdot 30^{c} \\ \cdot 64^{d} \\ \cdot 37^{c} \\ \cdot 55^{d} \end{array}$	B .37 ^C .18 .26 .43 ^d .09 .05 .53 ^d	C .46 ^d .15 .47 ^d .16 .32 ^c .10 .68 ^d .36 ^c .69 ^d .24 .54 ^d	.41 ^d .22 .20 .38 ^c .25 .08 .62 ^d .44 ^d .53 ^d .40 ^c .41 ^c	• 40 ^C • 06 • 58 ^d • 07 • 33 ^C • 09 • 56 ^d
ChIPS Scale (a) CAAP Scale: Pre-test (n=50) Total Subscales: A. Peer Relations B. Dependency C. Hostility D. Productivity E. Withdrawal Post-test (n=32) Total Subscales: A. Peer Relations B. Dependency C. Hostility D. Productivity	•Total (17 .47 ^d .47 ^d .10 .39 ^d .42 ^d 02 (27 .38 ^c .21 .13 .36 ^c .40 ^c	A √'s > .45 ^d .07 .45 ^d .04 .04 .59 ^d .30 ^c .32 ^c .38 ^c .45 ^d .32 ^c .38 ^c .52 ^d	$\begin{array}{c} B \\ \pm , 2^{4} \\ .34^{d} \\ .24^{c} \\ .11 \\ .55^{d} \\ .17 \\ .21 \\ .35^{c} \\ .12 \\ .18 \\ .38^{c} \\ .22 \\ .29 \end{array}$	c .43 ^d .37 ^d .03 - .22 .49 ^d .12 .63 ^d .36 ^c .36 ^c .26 .52 ^d .58 ^d	.28 ^C .42 ^d .14 .19 .34 ^d .03 .42 ^d .37 ^C .06 .30 ^C .37 ^C .36 ^C	.42 ^d .17 .20 .17 .48 ^d .17 .56 ^d .20 .50 ^d .11 .44 ^d .55 ^d	Total (1 .44 ^d .23 .44 ^d .29 .17 .13 (3 .58 ^d .21 .61 ^d .30 ^c .48 ^d .29	$\begin{array}{c} A \\ 9 \\ \cdot 46^{d} \\ \cdot 41^{d} \\ \cdot 31^{c} \\ \cdot 25 \\ \cdot 09 \\ \cdot 68^{d} \\ \cdot 30^{c} \\ \cdot 64^{d} \\ \cdot 37^{c} \\ \cdot 55^{d} \\ \cdot 39^{c} \end{array}$	B .37 ^C .18 .26 .43 ^d .09 .05 .53 ^d .15 .43 ^d .45 ^d .45 ^d .45 ^d .26	C .46 ^d .15 .47 ^d .16 .32 ^c .10 .68 ^d .36 ^c .69 ^d .24 .54 ^d .42 ^d	.41 ^d .22 .20 .38 ^c .25 .08 .62 ^d .44 ^d .53 ^d .40 ^c .41 ^c	.40 ^C .06 .58 ^d .07 .33 ^C .09 .56 ^d .20 .75 ^d .05 .48 ^d

Table XVII. Correlations between Home IPS and Adjustment Measures

^aChIPS Scale:A. General Problem Solving, B. Consequential Thinking,
 C. Consideration of Alternatives and Feelings, D. Feeling Consideration,
 E. Alternative Solutions. Higher scores reflect more effective IPS behavior.
 ^b The valence of the r coefficients was reversed for the CAAP total and subscales A and D so that all reflect "positive" adjustment.
 ^c p≤.05, 1-tailed.
 ^d p≤.01, 1-tailed.

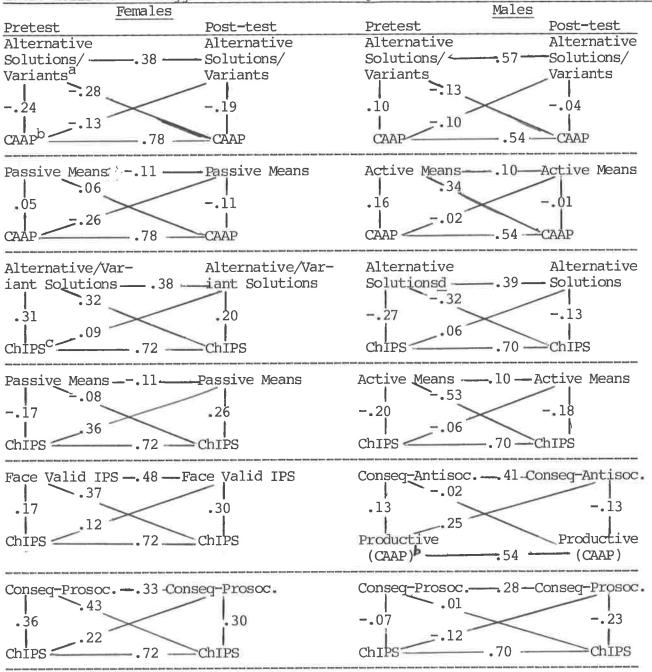


Table XVIII. Cross-lagged Panel Correlations between School IPS and Home Measures

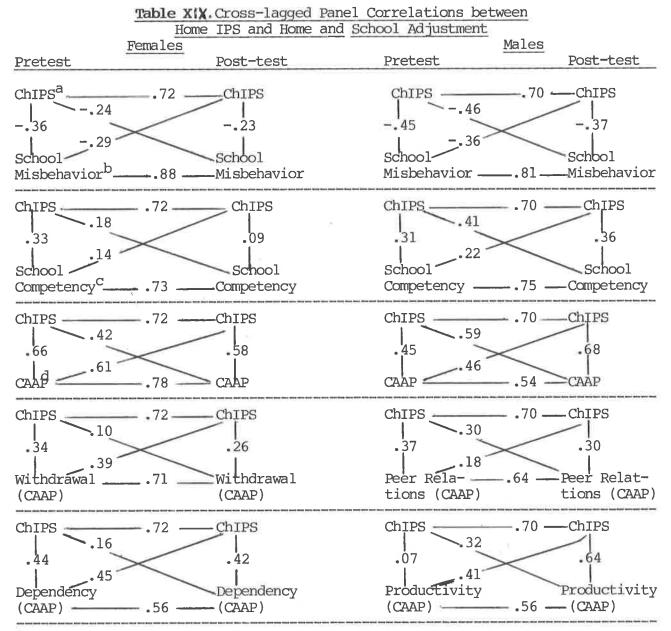
^a Verbal ability was partialed out of all IPS interview correlations.

^b Higher scores reflect maladjustment.

^C Subscale A of the Child Interpersonal Problem Solving measure (General Problem Solving) was used rather than the total scale due to its greater internal consistency reliability (see Table III).

^d Unlike for girls, variant solution generation does not seem to be related to boys' problem solving at home and so was left out of this panel.

^e Similarly, passive means generation seems to be a more important IPS component for girls than active means generation.



^a Subscale A of the Child Interpersonal Problem Solving measure (General Problem Solving) was used rather than the total scale due to its greater internal consistency reliability (see Table III).

b Teacher rated interpersonal problem behaviors.

^C Teacher rated interpersonal competency behaviors.

dThe valence of the r coefficients was reversed for the CAAP total and the subscales reported in this table so that all reflect "positive" adjustment.

Teachers & Trained Observers

r	hild's Nam						1070 70 0.	noble- C-I	ton D	
	'eacher's l						November	roblem Solv 30, 1978	ing Pro	gram
-	cacher 5 i	Value	******							
o tro	Section I: children e	Listed	below a: . Pleas	re speci: se rate g	fic behave each iter	vior and ac n in Sectio	laptation p on I with or	roblems whi ne number o	ch some n the	
	following :							-		
	4 1	1 = not 2 = very				derate prob rious probi		= very seri	ous pro	blem
	[.] Disrupt	ive in cl	ass			Unable to	express fe	elings	14	
-	Talks o	ut of tur	n, dist	urbs oth	ers 🗀	Worried, d	frightened,	tense		3)
		hey are w			· · ·	_	E-confidence			
-	is over Impulsi	aggressiv bearing, ve, is un	bellige:	rent)		Depends to	orly to dis oo much on f culty learn:	teacher to	solve p	roble
-	Shy, ti	mid			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		100.01.02	all the second	1.000	÷ .
	have devel	loped a 1	ist of i	items ide	entifying	children'	s strengths s positive	resources.	encies n Pleas	We e
	race <u>eacn</u>	item in	Section	TIT MIFL	i <u>one</u> nui	ider from t	he followin	ng scale:		
24	1 - not at					1				
		: all	2 = a]	little	3 = mc	derately w	rell 4 =	= well	5 = ver	y well
1. ä	i stolja						rell 4 = positive r	8.2	5 = ver	y wel.
Uā	Feels	*Plea	se note t himse	that 5 m	represent	Anger,	positive r	rating* layed, is j		
	Feels g	* <u>Plea</u> good abou things w	se note t himse ith othe	that 5 m lf or herers	represent rself	Anger, Expres	positive ; when displayers ideas w	rating* layed, is j villingly		
	Feels g Shares Can acc	*Plea good abou things w cept thin	se note t himse ith othe gs not j	that 5 m If or here ers going his	represent rself s way	Anger, Anger, Expres	when displ ses ideas which have be the by class	rating* layed, is j villingly assmates		
	Feels Shares Can ac Defend	* <u>Plea</u> good abou things w cept thin s his vie	se note t himse ith othe gs not y ws unde:	that 5 m If or here ers going his r group]	cepresent cself s way pressure	Anger, Anger, Expres Well J Makes	when displayers ideas when be a set of the s	cating* layed, is j villingly assmates sily		194
1.5	Feels Shares Can act Defends Resolve Copes n	*Plea good abou things w cept thin s his vie es peer p well with	se note t himsel ith othe gs not y ws under roblems failure	that 5 m f or here ers going his r group p on his o e	cepresent cself s way pressure pwn	Anger, Anger, Expres Well J Makes Thinks Accept	when displ ses ideas when displ ses ideas when displ ses ideas when display the display is the display is the display the display is the disp	cating* layed, is j villingly assmates sily ting te imposed	ustifie limits	đ
	Feels (Shares Can acc Defends Resolve Copes to Is able	*Plea good abou things w cept thin s his vie es peer p	se note t himse ith othe gs not y ws under roblems failure tion ru	that 5 m f or here ers going his r group p on his o e les that	cepresent cself s way pressure pwn	Anger, Expres Well J Makes Thinks Accept Expres	when displ ses ideas when be iked by cla friends eas before act	cating* layed, is j villingly assmates sily ting te imposed and feeling	ustifie limits s appro	d priat
	Feels g Shares Can acc Defends Resolve Copes u Is able unfair	*Plea good abou things w cept thin s his vie es peer p well with e to ques or uncle	se note t himse ith othe gs not y ws under roblems failure tion ru ar to h	that 5 m lf or here ers going his r group p on his o e les that im	cepresent cself s way pressure own .seem	Anger, Expres Well J Makes Thinks Accept Expres Functi	when displ ses ideas when displ ses ideas when displ ses ideas with the by class friends ease before act to before	cating* layed, is j willingly assmates sily ting te imposed and feeling h unstructu	ustifie limits s appro red sit	d priat uatio
	Feels g Shares Can acc Defends Resolve Copes u Is able unfair	* <u>Plea</u> good abou things w cept thin s his vie es peer p well with e to ques or uncle [: From	se note t himsel ith othe gs not y ws unde: roblems failurd tion ru ar to h your exp	that 5 m lf or here ers going his r group p on his o e les that im perience	cepresent cself s way pressure own seem with the	Anger, Expres Well J Makes Thinks Accept Expres Functi	when displayed when d	cating* layed, is j willingly assmates sily ting te imposed and feeling h unstructu	ustifie limits s appro red sit	d priat uatio
	Feels g Shares Can acc Defend Resolve Copes u Is able unfair Section II would lie	*Plea good abou things w cept thin s his vie es peer p well with e to ques or uncle f: From on the f	se note t himsel ith othe gs not y ws unde: roblems failurd tion ru ar to h your exp	that 5 m lf or here ers going his r group p on his o e les that im perience	cepresent cself s way pressure own seem with the	Anger, Expres Well J Makes Thinks Accept Expres Functi	when displ ses ideas when displ ses ideas when displ ses ideas with the by class friends ease before act to before	cating* layed, is j willingly assmates sily ting te imposed and feeling h unstructu	ustifie limits s appro red sit	d priat uatic
14	Feels g Shares Can acc Defend Resolve Copes to Is able unfair Section M would lie seems dif	*Plea good abou things w cept thin s his vie es peer p well with e to ques or uncle f: From on the f	se note t himsel ith othe gs not y ws unde: roblems failurd tion ru ar to h your exp	that 5 m lf or here ers going his r group p on his o e les that im perience	cepresent cself s way pressure own seem with the	Anger, Expres Well J Makes Thinks Accept Expres Functi	when displ ses ideas when displ ses ideas when displ ses ideas with the by class friends ease before act to before	cating* layed, is j villingly assmates sily ting te imposed and feeling h unstructu le the numb	ustifie limits s appro red sit er wher	d priat uatio e he
14	Feels g Shares Can acc Defend Resolve Copes u Is able unfair Section II would lie	*Plea good abou things w cept thin s his vie es peer p well with e to ques or uncle f: From on the f	se note t himsel ith othe gs not y ws unde: roblems failurd tion ru ar to h your exp	that 5 m lf or here ers going his r group p on his o e les that im perience	cepresent cself s way pressure own seem with the	Anger, Expres Well J Makes Thinks Accept Expres Functi	when displ ses ideas when displ ses ideas when displ ses ideas with the by class friends ease before act to before	cating* layed, is j willingly assmates sily ting te imposed and feeling h unstructu	ustifie limits s appro red sit er wher	d priat uatio e he
14	Feels g Shares Can acc Defend Resolve Copes to Is able unfair Section M would lie seems dif	*Plea good abou things w cept thin s his vie es peer p well with e to ques or uncle f: From on the f	se note t himsel ith othe gs not y ws unde: roblems failurd tion ru ar to h your exp	that 5 m for here ers going his r group p on his of e les that im perience g dimens:	cepresent cself s way pressure own seem with the	Anger, Expres Well J Makes Thinks Accept Expres Functi	when displ ses ideas w liked by cla friends eas before act s legitimat ses needs a ons well in please circi	cating* layed, is j villingly assmates sily ting te imposed and feeling h unstructu le the numb	ustifie limits s appro red sit er wher	d priat uatio e he
.1d	Feels g Shares Can acc Defend Resolve Copes to Is able unfair Section M would lie seems dif	*Plea good abou things w cept thin s his vie es peer p well with e to ques or uncle f: From on the f	se note t himsel ith othe gs not y ws unde: roblems failurd tion ru ar to h your exp	that 5 m for here ers going his r group p on his of e les that im perience g dimens:	cepresent cself s way pressure own seem with the	Anger, Expres Well J Makes Thinks Accept Expres Functi	when displ ses ideas w liked by cla friends eas before act s legitimat ses needs a ons well in please circi	cating* layed, is j villingly assmates sily ting te imposed and feeling h unstructu le the numb	ustifie limits s appro red sit er wher	d priat uatio e he
	Feels g Shares Can acc Defend Resolve Copes to Is able unfair Section M would lie seems dif	*Plea good abou things w cept thin s his vie es peer p well with e to ques or uncle f: From on the f ficult	se note t himsel ith othe gs not y ws unde: roblems failurd tion ru ar to h your exp	that 5 m for here ers going his r group p on his of e les that im perience g dimens:	cepresent cself s way pressure own seem with the	Anger, Expres Well J Makes Thinks Accept Expres Functi	when displ ses ideas w liked by cla friends eas before act s legitimat ses needs a ons well in please circi	cating* layed, is j villingly assmates sily ting te imposed and feeling h unstructu le the numb Child see 7	ustifie limits s appro red sit er wher ms easy	d priat uatio e he to l
.1d	Feels g Shares Can acc Defends Resolve Copes to Is able unfair Section II would lie seems diff to like	*Plea good abou things w cept thin s his vie es peer p well with e to ques or uncle f: From on the f ficult	se note t himsel ith othe gs not y ws unde: roblems failurd tion ru ar to h your exp	that 5 m for here ers going his r group p on his of e les that im perience g dimens:	cepresent cself s way pressure own seem with the	Anger, Expres Well J Makes Thinks Accept Expres Functi	when displ ses ideas w liked by cla friends eas before act s legitimat ses needs a ons well in please circi	cating* layed, is j villingly assmates sily ting te imposed and feeling h unstructu le the numb Child see 7 Child has	ustifie limits s appro red sit er wher ms easy no sch	d priat uatio e he to l
ild	Feels g Shares Can acc Defend Resolve Copes to Is able unfair Section II would lie seems dif to like	*Plea good abou things w cept thin s his vie es peer p well with e to ques or uncle f: From on the f ficult	se note t himsel ith othe gs not y ws unde: roblems failurd tion ru ar to h your exp	that 5 m of the server going his r group p on his of les that im perience g dimens: 3	cepresent cself s way pressure own seem with the	Anger, Expres Well J Makes Thinks Accept Expres Functi is child, p	when displ ses ideas when displ ses ideas when displ ses ideas when displ ses ideas well ses needs a lons well in please circ	cating* layed, is j villingly assmates sily ting te imposed and feeling h unstructu le the numb Child see 7	ustifie limits s appro red sit er wher ms easy no sch	d priato uation e he to l
ild	Feels g Shares Can acc Defends Resolve Copes to Is able unfair Section II would lie seems diff to like	*Plea good abou things w cept thin s his vie es peer p well with e to ques or uncle f: From on the f ficult	se note t himsel ith othe gs not y ws unde: roblems failurd tion ru ar to h your exp	that 5 m for here ers going his r group p on his of e les that im perience g dimens:	cepresent cself s way pressure own seem with the	Anger, Expres Well J Makes Thinks Accept Expres Functi	when displ ses ideas w liked by cla friends eas before act s legitimat ses needs a ons well in	cating* layed, is j villingly assmates sily ting te imposed and feeling h unstructu le the numb Child see 7 Child has	ustifie limits s appro red sit er wher ms easy no sch	d priato uation e he to l
1d	Feels g Shares Can acc Defends Resolve Copes to Is able unfair Section II would lie seems diff to like	*Plea good abou things w cept thin s his vie es peer p well with e to ques or uncle f: From on the f ficult	se note t himsel ith othe gs not y ws unde: roblems failurd tion ru ar to h your exp	that 5 m of the server going his r group p on his of les that im perience g dimens: 3	cepresent cself s way pressure own seem with the	Anger, Expres Well J Makes Thinks Accept Expres Functi is child, p	when displ ses ideas when displ ses ideas when displ ses ideas when displ ses ideas well ses needs a lons well in please circ	cating* layed, is j villingly assmates sily ting te imposed and feeling h unstructu le the numb Child see 7 Child has	ustifie limits s appro red sit er wher ms easy no sch	d priat uatio e he to l
.1d	Feels g Shares Can acc Defends Resolve Copes to Is able unfair Section II would lie seems diff to like	*Plea good abou things w cept thin s his vie es peer p well with e to ques or uncle f: From on the f ficult	se note t himsel ith othe gs not y ws unde: roblems failurd tion ru ar to h your exp	that 5 m of the server going his r group p on his of les that im perience g dimens: 3	cepresent cself s way pressure own seem with the	Anger, Expres Well J Makes Thinks Accept Expres Functi is child, p	when displ ses ideas when displ ses ideas when displ ses ideas when displ ses ideas well ses needs a lons well in please circ	cating* layed, is j villingly assmates sily ting te imposed and feeling h unstructu le the numb Child see 7 Child has	ustifie limits s appro red sit er wher ms easy no sch	d priat uatio e he to 1

÷

	Facents	Answer Choices	
	1 (en-	DURING LAST MONTH, HAS HE/SHE 1 2 3	
		(Please answer each statement Rarely Some- Often	Almost
1	CHILD AND ADOLESCENT ADJUSTMENT PROFILE	below) times	Always
)		1. Tried to get along with	
)	(CAAP SCALE)	others?	
~	р.	2. Joined others freely of	[]
2	×	own accord?	
			·
		3. Invited others to play with him/her?	
		4. Laughed and smiled easily?	
		easily?	
	1 · 1 / 1 · · · · · · · · · · · · · · ·		
Yo	nur Name		
		Answer Choices	
1.	Today's Date 2/10/83 Month Day Year	DURING LAST MONTH, HAS HE/SHE 1 2 3	4
	Month / Day / Year	(Please answer each statement ` Never Rarely Some- below) times	Often
2.	Your Relationship to Youngster (Check one)		110000
	(1) χ Nother (strengthene finite set)	5. Wanted help in things he/she could have done on own?	
	(1) X Mother (stepmother, foster mother)		Lk
	(2) Father (stepfather, foster father)	6. Became discouraged when	1
	(3) Teacher	attempted something on own?	19.00
		7. Asked for help when could	
	(4)Counselor	have figured things out?	
	(5)Other (please specify)	8. Asked unnecessary questions	I
		instead of working on own?	
3.	Sex of Youngster (Check one)		
	(1) Male (2) Female		
4	The second second second		
4.	Age 10 5. Grade in School 3th	Answer Choices	
	INSTRUCTIONS:	DURING PAST MONTH, HAS HE/SHE 1 2 3	4
		(Please answer each statement Never Rarely Some- below)	Often
	A. Please describe this youngster's behavior as you have observed it during the <u>past month</u> by answering each question.	below) times	
	28	9. Flared up if couldn't have	
	B. Please answer all questions on this and the reverse page, even	own way?	
	though you may feel somewhat unsure of some answers.	10. Become upset if others did	
	C. Mark your answer to each question by making a 🗸 🔽	not agree with him/her?	
	in the box under the Answer Choices" like this \ldots [V]	11. Picked quarrels with	
		others?	
CO	PYRIGHT 1977 by IPEV Int'1. Reproduction by any process without		
D.,	written permission violates copyright laws.	12. Not responded to discipline?	
	blished by Consulting Psychologists Press, Inc.		
57	7 College Ave., Palo Alto, CA 94306		

and the second s

DP

			Answer (
	NG LAST MONTH, HAS HE/SHE ase answer each statement w)	l Rarely	2 Some- times	3 Often	4 Almost Always
13.	Worked hard at tasks or assignments?	· ·	75		
14.	Stayed with work or assignment until finished?				7
15.	Made full use of abilities?		X		
16.	Done work carefully?				X
			Answer (Choices	
	NG PAST MONTH, HAS HE/SHE ase answer each statement w)	1 Never	2 Rarely	3 Some- times	4 Often
17.	Sat and stared without doing anything?			X	
18.	Done things very slowly?			X	
19.	Appeated indifferent and uninterested in things?				Х
20.	Daydreamed?	X			

\$

Thank you for providing the information requested. Please check back to make sure you have not missed answering any questions.

If you would like to make any comments about the person you have rated, please use the opposite section for this.

COMMENTS:

2

.

AP POIX C: Thild Interpersonal Problem Solving (ChIRE) Scale:

PARENT'S QUESTIONAIRE # 2

	have a second out of the second state and a second strategy with the state of the second state of the second st	Constant and the
Name of Child	Your Name	Date

•INSTRUCTIONS:

Please follow the same instructions as on the other questionaire, circling the number which corresponds to the best answer to each question.

DUR	ING THE LAST MONTH:	Ne	ver	Rarel	y S	ometimes	Often	Alwa	ays
1,	When your child misbehaves, does s/he tend to think about the consequences of that misbehavior?		1	2		- 3	4	5	7
2.	Does s/he learn from his/her mistakes?		1	2		3	4	5	
3.	Does s/he seem genuinely surprised when caught or scolded for something?	3	1	2		3	4	5	Toma Cons A
4.	Does s/he get into many verbal or physical fights which could have been avoided?		1	2		3	4	5	Υ,
5.	Does s/he solve problems or carry out tasks in a creative way?	e P	1	2		3	4	5	Ţ
6.	Does s/he need to be told what to do?	29	1	2		3	4	5	4
7.	Does s/he try to get what s/he wants in a non-forceful way?	2	1	2		3	4	5	
8.	If s/he can't get what s/he wants one way, does s/he try other ways?		1	2		3	4	5	
9.	Does s/he come straight to others in the family when s/he has a problem instead of trying to solve it alone?	1	L	2	124	3	4	5	
10.	Is your child curious (does s/he ask why certain things happen)?		1	2		3	4	5	*
11.	Does s/he talk about her own feelings?		L	2		3	4	5	
12.	Does s/he consider the feelings of others?	:	L	2	•	3	⁸ 4	5	_

Thank you for providing all the requested information. Please use the back of this sheet for any comments or clarifications. APPE D'X D: Face Valid Problem Solving Measure: WHAT I'M LIKE "

Nome		Grade
Teacher		Date
School.	_	

1. It's HARD / NOT HARD to know what other people are feeling.

- 2. I CAN / CAN'T get my own way if I keep on trying.
- 3. If I'm in trouble with someone, I ALWAYS / SOMETIMES do the very first thing I think of to make things better.
- 4. If I'm upset, I usually KNOW / DON'T KNOW why.
- 5. If another kid in my class doesn't like me, I CAN DO SOMETHING / CAN'T DO ANYTHING about it.
- 6. When I'm in trouble, there is usually ONLY ONE WAY / MORE THAN ONE WAY to make things okay.
- 7. If a kid my age decided to fight me, there <u>IS</u> / ISN'T a lot I could do to stop them.
- 8. If another kid bothers me in class, I DON'T GO / GO to the teacher.
- 9. If something is hard for me to do, I STOP / DON'T STOP doing it.
- 10. If another kid teases me, I DON'T KNOW / KNOW what to do about it.
- 11. It's EASY / NOT EASY for me to make friends.
- 12. I GET / DON'T GET into fights with other kids.

66