A Comparative Study of Teacher Figures in 5 to 7 Year-Old Children's Drawings

5-7 Yaş Grubu Çocukların Resimlerine Yansıyan Öğretmen Figürünün Karşılaştırmalı Olarak İncelenmesi

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Abstract

This study aims to analyze how the teacher is represented in children's drawings by focusing on the differences caused by age and gender of the children. The study is carried out by using Koppitz's system of indicators of emotionality in human figure drawings. From the age group of 5 to 7 year olds, 40 girls and 40 boys were chosen from each age in years to make up 240 children in total for the study group. The children were then asked to "draw a teacher figure". As a result of the study, itwas found that there are significant differences between the age groups and impulsivity, insecurity-inadequacy and emotional indicators in grand total, and that this difference is caused by the significant drop in scores from five to seven years of age.

Keywords: Early childhood, human figure drawing, emotional indicators, teacher, teacher, child interaction

Öz

Bu araştırma, çocukların çizimlerine yansıyan öğretmen figürünün yaş ve cinsiyete bağlı olarak nasıl değişim gösterdiğini incelemek amacıyla gerçekleştirilmiştir. Araştırma Koppitz'in İnsan Figürü Çizimlerini duygusal belirleyiciler açısından değerlendirme yöntemi dikkate alınarak yapılmıştır. Araştırmada 5-7 yaş grubunun her birinden 40 kız, 40 erkek öğrenci olmak üzere toplam 240 çocuk çalışma grubunu oluşturmuş ve bu çocuklardan "bir öğretmen çizmeleri" istenmiştir. Araştırma sonucunda yaş grupları ile tepkisellik, güvensizlik-yetersizlik ve genel toplamdaki duygusal belirleyiciler arasında anlamlı farklılıklar olduğu ve bu farkın beş yaştan yedi yaşa doğru puanlardaki önemli düzeyde düşüşten kaynaklandığı bulunmuştur.

Anahtar Sözcükler: Erken çocukluk, insan figürü çizimi, duygusal belirleyiciler, öğretmen, öğretmen-çocuk etkileşimi.

Introduction

As early childhood coincides with the formation of basic patterns of behavior and attitudes in a fast manner, it is essential that children's developmental areas be supported. Without doubt, this responsibility is both parents' as well as teachers'. Early childhood is a period in which children develop their sexual identity through identification. In this period, children need not only to learn to live and work together in kindergartens, but also to see a healthy teacher model that they can copy in detail (Çağlar and Kurtuluş, 2003; Oktay, 2000; Yavuzer, 1995). Children spend most of the day with their teachers. Teachers, on the other hand, not only teach them new information, but also play with them, sing songs, paint pictures, help them eat their food, and share children's happiness and sorrows that are important to them. In this period, it is equally important that parents and teachers both set a positive and ideal role model for the development of children's behavior and attitudes (Başal, 2005; MEB, 2006; Oktay, 2000).

One of the fundamental factors underlying children's role models is attachment. The behavior of attachment reflects the feeling that children can trust an adult caregiver in a sensitive

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and emotional situation (Ainworth et al., 1978). Studies on child care and education stress the fact that teachers are as important as parents in being attachment figures (Goossens & van Ijzendoorn, 1990; Howes and Hamilton, 1992). Children, by taking advantage of the positive relationship they have with their teachers and receiving their encouragement, become socially and academically more efficient in early childhood educational environments (Birch & Ladd, 1996,1997; Egeland & Heister, 1995; Howes, 2000; Pianta & Nimetz, 1991).

Previous studies have agreed that children's personal, social and academic adaptation takes place during the early years of schooling via relations characterized by positive traits such as closeness, love and openness to communication, as well as negative ones such as disagreement and dependence (Birch & Ladd, 1996,1997; Howes, 2000; Pianta & Nimetz, Bennett,1997; Pianta & Steinberg, 1992; Pianta, Steinberg & Rollins, 1995). At the same time, longitudinal studies have shown that the quality of early relationships are crucial to set the foundations of children's future academic career (Hamre & Pianta, 2001). An examination of skills in children's academic career shows more positive feelings for school (Birch & Ladd, 1997), fewer problem behaviors (Pianta et al., 1995), fewer discipline problems (Hamre & Pianta, 2001), less aggressive and antisocial peer interaction (Ladd & Burgess, 1999), better social skills (Pianta & Steinberg, 1992), better study habits (Ladd & Burges, 1999) better academic performance in visual arts and language skills (Birch & Ladd, 1997), basic concepts (Pianta et al., 1997), basic skills, language arts and maths (Burchinal, Peisner-Feinberg, Pianta & Howes, 2002; Hamre & Pianta, 2001) and a reduction in falling behind in class (Pianta & Steinberg, 1992), as well as less conflict with teachers. Studies in the field show that first close relations and conflicts largely continue over time (Howes, Phillipsen & Peisner-Feinberg, 2000; Ladd & Burges, 1999). The quality of children's first relationships also affect their academic success and behaviors throughout the following school years (Hamre & Pianta, 2001; Howes, 2000). Taking these into consideration, teachers need certain competences in order to set a good model for children in the early childhood period. The teacher's being a positive role model for children entails having certain competencies. The teacher, as a model, should constantly observe him/ herself, make sure the children benefit from the positive models around them, and follow the developments in the teaching field (Tuğrul, 1993).

It is crucial that teachers educate themselves in the subjects of music, dance and drawing as children in early childhood are rather fond of these activities. Among these artistic activities, children's favorite one is usually drawing. Drawing is a projection of the most natural images of emotional and intellectual life which children express in the most authentic and simple way. For children, drawing is a process which brings together different experiences in order to create something personal, unique, and brand new. The process of drawing necessitates choosing and arranging colors, forms and lines by synthesizing components such as content, style, form and composition in order to convey a thought, feeling, an event or an observation. This natural environment makes it possible for the caregiver to know about the real feelings of the child (Malchiodi, 1998). It is apparent that what a child draws means more than what it seems to at first glance. In addition to children's way of thinking, these drawings reflect the problems they have with other children and adults and offer clues about the way they handle these problems (Burkitt et al., 2003a, 2003b; Forrest & Thomas, 1991; Malchiodi, 1998; Yavuzer, 1995). As a result of a detailed analysis of children's drawings, it is possible to have important insight into their abilities, habits and personalities or their relations with their surroundings (Koppitz, 1984; Malchiodi, 1998).

In the 1940s, a trend started to develop towards children's drawings. Personality assessment studies known as the projective method added a new dimension to Human Figure Drawing (HFD). According to this, children's drawings and drawing techniques might give us information about their personality, habits and behavior. Machover (1949) and Koppitz (1968, 1984) analyzed children's drawings sensually. Koppitz (1968) used the "Draw a Man" approach in determining certain emotional disorders in children and proposed alternative ideas in interpreting special signs. The Koppitz method can be used in identifying emotional disturbance and problems during difficult children's education and in helping them deal with these. This makes it

possible to express hidden emotions in a non-verbal way and evaluate children in a comfortable environment. Projective assessment on children's drawings has raised important questions and debates concerning the validity and reliability of the method used. (Garb, Wood, Lilienfeld & Nezworski, 2002; Smith & Dumont, 2000). However, it is still widely used in the UK and especially the USA (Camara, Nathan & Puenta, 2000; Cashel, 2002; Costenbader, Allison & DiFonzo, 2000; Lubin et al., 1985; Lubin et al., 1984; Watkins et al., 1995).

This study has been designed based on the hypothesis put forward by many researchers working in this area claiming that the quality of the relationship between children and their loved ones is reflected in their drawings (Cugmas, 2004; Fury et al., 1997; Hamre & Pianta, 2001; Harrison, 2007; Kaplan & Main, 1985; Madigan et al., 2003). The quality of the children's relationship with their teachers affects their social and academic adaptation to school to a great extent. Children who interact closely with their teachers are inclined to be less problematic and display more positive behavior towards school. However, so far, studies of teacher-child interaction have mostly used assessment tools geared towards teachers, thus completely neglecting children's perspective. It is worth noting that there are very few articles in the literature analyzing children's interaction with their teachers from these children's perspective by relying on their drawings. In this study, children's perspective toward their teachers as reflected in their drawings during early childhood were analyzed according to age and gender by using emotional indicators, which is one of Koppitz's methods of assessing HFD.

Method

Study Group

The study group was formed through random sampling among the 5 to 7 year-old children from independent kindergartens in Ankara city center, the kindergartens of primary schools and the first grades of primary schools. In each age group, 40 boys and 40 girls were selected, a total of 240 children. Students from each age group were chosen from classes in 6 different schools. The distribution of the sample group's families according to several socio-demographic attributes is given in Table 1 below.

Table.1.

The Distribution of the Sample Group's Families according to Socio-demographic Attributes

| Age | 5 | age | 6 8 | age | 7 | age | TOT | ΓAL |
|---------------------------------|----|------|-----|------|----|------|-----|------|
| Attributes | n | % | n | % | n | % | n | % |
| Order of birth | | | | | | | | |
| First | 47 | 58.7 | 48 | 60.0 | 37 | 46.2 | 132 | 55.0 |
| Second | 29 | 36.2 | 28 | 35.0 | 26 | 32.5 | 83 | 34.6 |
| Third | 3 | 3.7 | 3 | 3.7 | 10 | 12.5 | 16 | 6.7 |
| Fourth and more | 1 | 1.2 | 1 | 1.2 | 7 | 8.7 | 9 | 3.7 |
| Number of children | | | | | | | | |
| One | 31 | 38.7 | 26 | 32.5 | 17 | 21.2 | 54 | 30.8 |
| Two | 43 | 53.7 | 47 | 58.7 | 40 | 50.0 | 130 | 54.2 |
| Three | 6 | 7.5 | 6 | 7.5 | 16 | 20.0 | 28 | 11.7 |
| Four and more | 0 | 0.0 | 1 | 1.2 | 7 | 8.7 | 8 | 3.3 |
| Mother's educational background | | | | | | | | |
| Primary school | 4 | 5.0 | 4 | 5.0 | 20 | 25.0 | 28 | 11.7 |
| Secondary school | 6 | 53.7 | 1 | 1.2 | 19 | 27.2 | 26 | 10.9 |
| High school | 23 | 28.7 | 27 | 33.7 | 19 | 27.2 | 69 | 28.7 |
| University | 47 | 58.7 | 48 | 60.0 | 22 | 27.5 | 117 | 48.7 |
| Father's educational background | | | | | | | | |
| Primary school | 3 | 3.7 | 3 | 3.7 | 7 | 8.7 | 13 | 5.4 |
| Secondary school | 4 | 5.0 | 3 | 3.7 | 13 | 16.2 | 20 | 8.4 |
| High school | 26 | 32.5 | 20 | 25.0 | 28 | 35.0 | 74 | 30.8 |
| University | 47 | 58.7 | 54 | 67.5 | 32 | 40.0 | 133 | 55.4 |

Data Collection Instruments

In this study, the drawings of children were analyzed according to Koppitz's method of "Human Figure Drawing". The method of Human Figure Drawing (HFD), which is based on 5-11 year-old children, was developed by Koppitz. In this method, children are given a piece of paper, which is 15x21 cm in size, and are seated at a comfortable table. They are given either crayons or pencils. They are asked to draw by giving the instruction: "I want you to draw a teacher, it can be a woman or a man". In order not to be affected from each other, children are made to draw individually or carefully seated away from each other. After they finish drawing, they are asked by the researcher to talk about the person they drew, what that person thinks, feels and does. Koppitz (1968) scored the indicators in children's drawings in two different types. The first is "developmental criteria", which determine age and the level of maturity. The second is "emotional indicators", which define children's attitudes and worries. In this study, 5-7 year-old children's HFDs were analyzed in terms of emotional indicators.

Koppitz's categories for emotional indicators in children's human figure drawings are given below:

- 1. *Impulsivity (Avoiding social communication):* Disjointed body parts, extreme asymmetry in arms and legs, transparency, big figures, omission of neck
- 2. *Insecurity-Inadequacy:* Slanting figure, tiny head, omission of hands, arms, legs or foot, monster or grotesque figures, or robot
- 3. Anxiety: Shading of face, arms, legs/body, hands or neck, feet pressed together, omission of eyes, clouds, rain and flying birds
- 4. Shyness-Timidity: Tiny figure, short arms, arms folded around the body- arms pressed together, omission of nose and mouth
 - 5. Anger-Aggression: Crossed eyes, teeth, long arms, big hands, naked figure-genitals

The scores obtained from the HFD are calculated by examining whether the criteria in each category are present. While the criterion that is not present in the drawing is given 0 point, the ones present receive +1 point (Koppitz, 1968). Children in the study group were observed for five weeks, for four hours per week. The assessment of children's HFD was done by a trained researcher by using the data obtained from the children's observations and by taking into consideration how they talked about the elements in the drawings. In addition, the researcher analyzed the sentences which the children used while explaining their drawings and considered the number of sentences and their content. The number of sentences was evaluated in 6 categories ranging from none to five or more. The content of the sentences, on the other hand, was examined in 3 categories. The first was called "no sentence" and meant that the child did not explain the drawing or used sentences like "I have a sister", which is not related to the drawing. The second was named "positive statements" and included positive statements about the teacher or school life. Finally, the third one was called "negative statements" and included negative statements related to the teacher or school life. The data obtained from these categories were analyzed statistically.

Data Analysis

The data from this study were analyzed by using SPSS 12. Frequency counts and percentages were obtained. In addition, children's emotional indicators scores from the HFD were calculated, and comparisons were made among age groups and genders. As the scores did not show normal distribution, the comparison among age groups was made by using Kruskall-Wallis H test, and the comparison among gender groups was made by Mann-Whitney U test. For categorical data, dependency tests were conducted via Chi-Square test. The level of significance was taken to be α .05.

Findings

Data obtained in this study are examined below in three parts. In Table 2, the emotional indicators present in children's drawings are given by age group across the sample, while Tables 3-5 show children's drawings with respect to gender at each age level. Finally, in Table 6, by evaluating the content and the number of sentences that children used while talking about their drawings, their distribution according to age groups and gender are analyzed.

In Table 2, the emotional indicators present in the drawings of children according to age groups are given. As a result, the differences in anxiety scores within age groups pertaining to teacher figures are analyzed by using Kruskall-Wallis Test and no difference is observed, H=.00, p>.05. Similarly, it is found that no a meaningful difference existed between the shyness-timidness scores obtained from the HFDs for teacher and age, H=3.3, p>.05. It is also determined that there is a statistically meaningful decrease (p<.05) in the scores obtained from emotional indicators from 5 to 7 years of age in impulsivity, insecurity-inadequacy, and overall. In addition, it is concluded that there are statistically meaningful differences between the scores from teacher drawings in the category of anger-aggression and age groups according to Kruskall-Wallis Test (For impulsivity H= 27.3, p<.05; for insecurity-inadequacy H= 38.1, p<.05; for overall H= 26.6, p<.05) and that the emotional indicator scores of 6 year-olds in this category is higher than other age groups (p<.05). Table 2.

The Differences in Emotional Indicator Scores Specified in Teacher Drawings and Age Groups

| | | | <u> </u> | | | | | |
|--------------------------------|----------|----|----------|------|--------------|------|------|------------|
| Factor | Variable | n | Avg. | SD | Mean rank | KWH |] | p Diff. |
| | 5 Years | 80 | .95 | .39 | 144.2 | | | 1-2 |
| Impulsivity Score | 6 Years | 80 | .75 | .56 | 120.9 | 27.3 | .000 | 1-3 |
| | 7 Years | 80 | .53 | .55 | 96.3 | | | 2-3 |
| Insecurity-Inadequacy Score | 5 Years | 80 | 2.19 | 1.44 | 147.4 | | .000 | 1.0 |
| | 6 Years | 80 | 1.78 | 1.30 | 130.2 | 38.1 | | 1-3 2-3 |
| | 7 Years | 80 | .88 | 1.06 | 83.9 | | | 2-3 |
| Anxiety Score | 5 Years | 80 | .30 | .75 | 121.1 | | | |
| | 6 Years | 80 | .31 | .79 | 120.0 | .0 | .989 | - |
| | 7 Years | 80 | .23 | .45 | 120.4 | | | |
| | 5 Years | 80 | .61 | .85 | 110.0 | | | |
| Shyness-Timidness Score | 6 Years | 80 | .84 | .97 | 125.3 | 3.3 | .193 | - |
| | 7 Years | 80 | .80 | .85 | 126.2 | | | |
| | 5 Years | 80 | .01 | .11 | 118.5 | | | 1.0 |
| Anger-Aggression Score | 6 Years | 80 | .10 | .38 | 126.0 | 9.1 | .010 | 1-2 2-3 |
| 0 00 | 7 Years | 80 | .00 | .00 | 117.0 | | | 2-3 |
| | 5 Years | 80 | 4.06 | 2.23 | 141.1 | | | 1.0 |
| TOTAL | 6 Years | 80 | 3.78 | 2.31 | 131.8 | 26.6 | .000 | 1-3 2-3 |
| | 7 Years | 80 | 2.43 | 1.77 | 88.6 | | | 2-3 |

In Table 3, the differences in 5 year-old children's insecurity-inadequacy scores obtained from the HFD related to teacher and overall scores calculated by the Mann Whitney U test, and the differences between the two genders are given (For insecurity-inadequacy Z=-2.97, p<.05; for overall Z=-2.98, p<.05). In addition, it was observed that, apart from the anger-aggression category, 5 year-old boys made use more emotional indicators than girls.

Table 3.

Differences of 5 Year-Old Children's Emotional Indicators in HFD and Gender

| | | | 5 ye | ars | | | Mann-Whitney U |
|---------------------|------|----|----------|------|--------------|-------|----------------|
| Variable Gender | | n | Avg.Avg. | SD | Mean Rank | Z | p |
| Impulsivity | Boy | 40 | 1.00 | 32 | 42.4 | 1.10 | 220 |
| Score | Girl | 40 | .90 | 44 | 38.6 | -1.18 | 238 |
| Insecurity- | Boy | 40 | 2.67 | 1.31 | 48.0 | 2.07 | 002 |
| Inadequacy Score | Girl | 40 | 1.70 | 1.42 | 33.0 | -2.97 | 003 |
| Amaiota Coomo | Boy | 40 | 27 | 60 | 40.9 | 20 | 839 |
| Anxiety Score | Girl | 40 | 32 | 89 | 40.1 | 20 | 039 |
| Shyness- | Boy | 40 | 82 | 98 | 44.8 | -1.89 | 059 |
| Timidness Score | Girl | 40 | 40 | 63 | 36.2 | -1.09 | 039 |
| Anger- | Boy | 40 | 00 | 00 | 40.0 | 1.00 | 215 |
| Aggression Score | Girl | 40 | 02 | 16 | 41.0 | -1.00 | 317 |
| TOTAL | Boy | 40 | 4.77 | 2.11 | 48.2 | 2.00 | 002 |
| TOTAL | Girl | 40 | 3.35 | 2.14 | 32.8 | -2.98 | 003 |

Similar to 5-year-olds, 6-year-olds also had meaningful differences between the scores obtained from the HFD related to teacher in the categories of impulsivity, insecurity-inadequacy and overall, according to the Mann Whitney U test (For insecurity-inadequacy Z=-2.38, p<.05; for the total Z=-2.37, p<.05). The difference was due to the fact that boys use more emotional indicators than girls. The results are given in Table 4.

Table 4.

Differences in 6 Year-Old Children's Scores Obtained from Emotional Indicators in HFD and Gender

| | | | 6 Years | | Mann-Whitney U | | | |
|---------------------------|--------|----|---------|-------|----------------|--------|------|--|
| Variable | Factor | n | Avg. | SD | Mean Rank | Z Z | p | |
| Impulsivity Score | Boy | 40 | .825 | .501 | 43.4 | 1 220 | 104 | |
| | Girl | 40 | .675 | .616 | 37.6 | -1.328 | .184 | |
| Insecurity- | Boy | 40 | 2.125 | 1.181 | 46.4 | 2.275 | 010 | |
| Inadequacy Score | Girl | 40 | 1.425 | 1.338 | 34.6 | -2.375 | .018 | |
| Anxiety Score | Boy | 40 | 0.325 | .944 | 38.8 | 022 | 051 | |
| | Girl | 40 | .300 | .608 | 42.2 | 933 | .351 | |
| Shyness-Timidness | Boy | 40 | 1.050 | 1.061 | 45.0 | 1.050 | 062 | |
| Score | Girl | 40 | .625 | .838 | 36.0 | -1.858 | .063 | |
| Anger-Aggression Score | Boy | 40 | .075 | .267 | 40.4 | 0.62 | 050 | |
| | Girl | 40 | .125 | .463 | 40.6 | 063 | .950 | |
| TOTAL | Boy | 40 | 4.400 | 2.340 | 46.6 | 2.072 | 010 | |
| | Girl | | 3.150 | 2.131 | 34.4 | -2.372 | .018 | |

| Table 5. |
|--|
| The Differences between 7 Year-Old Children's Emotional Indicator Scores from HFD and Gender |

| | | | | 7 years | Mann-Whitney U | | |
|-------------------|------|----|------|---------|----------------|-------|------|
| Variable Fac | ctor | n | Ave | SD | Mean rank | Z | р |
| Immulaivitu Caana | Boy | 40 | 56 | 55 | 42.5 | -86 | 392 |
| Impulsivity Score | Girl | 40 | 48 | 55 | 38.6 | -00 | 392 |
| Insecurity- | Boy | 40 | 95 | 1.24 | 40.3 | -08 | 938 |
| Inadequacy Score | Girl | 40 | 80 | 85 | 40.7 | -00 | 938 |
| American Commo | Boy | 40 | 26 | 42 | 40.9 | 21 | 024 |
| Anxiety Score | Girl | 40 | 26 | 48 | 40.1 | -21 | 834 |
| Shyness-Timidness | Boy | 40 | 68 | 73 | 38.0 | 1.06 | 201 |
| Score | Girl | 40 | 93 | 94 | 43.1 | -1.06 | 291 |
| Anger-Aggression | Boy | 40 | 00 | 00 | 40.5 | 00 | 1.00 |
| Score | Girl | 40 | 00 | 00 | 40.5 | 00 | 1.00 |
| TOTAI | Boy | 40 | 2.43 | 1.85 | 40.0 | 10 | 0.40 |
| TOTAL | Girl | 40 | 2.43 | 1.71 | 41.0 | 19 | 849 |

When children's statements related to their teacher drawings are analyzed in relation to age and the number of sentences, it can be observed that 7-year-old children mainly used 1-2 sentences, whereas 5 and 6-year-olds explained their drawings with at least 3 sentences (χ^2 =90.22, p<.05). Table 6 presents 5, 6 and 7-year-old children's explanations of their teacher drawings. When the content of their sentences explaining the drawings is analyzed, it is found that 5 and 6 year-olds use negative statements at a higher rate (χ^2 = 18.11, p<.05).

Table 6.

Children's Explanation of their Teacher Drawings with Respect to Age

| <u> </u> | | | | | | | | | | |
|-------------------------------------|----|-------|---------|-------|---------|-------|-------|-------|----------|------|
| 77 - 11 | | | | Age G | roup | | | | | |
| Variable Factor | 5 | Years | 6 Years | | 7 Years | | TOTAL | | | |
| ractor | n | % | n | % | n | % | n | % | χ^2 | р |
| Number of sentences No sentence | 5 | 6.3 | 2 | 2.5 | 0 | .0 | 7 | 2.9 | | |
| One sentence | 2 | 2.5 | 4 | 5.0 | 21 | 26.3 | 27 | 11.3 | | |
| Two sentences | 12 | 15.0 | 16 | 20.0 | 43 | 53.8 | 71 | 29.6 | | |
| Three sentences | 18 | 22.5 | 23 | 28.8 | 11 | 13.8 | 52 | 21.7 | 90.22 | .000 |
| Four sentences | 16 | 20.0 | 19 | 23.8 | 3 | 3.8 | 38 | 15.8 | | |
| 5+ sentences | 27 | 33.8 | 16 | 20.0 | 2 | 2.5 | 45 | 18.8 | | |
| TOTAL | 80 | 100.0 | 80 | 100.0 | 80 | 100.0 | 240 | 100.0 | | |
| Content of the sentence No sentence | 5 | 6.3 | 2 | 2.5 | 14 | 17.5 | 21 | 8.8 | | |
| Negative statements | 13 | 16.3 | 13 | 16.3 | 3 | 3.8 | 29 | 12.1 | 18.11 | .001 |
| Positive statements | 62 | 77.5 | 65 | 81.3 | 63 | 78.8 | 190 | 79.2 | | |
| TOTAL | 80 | 100.0 | 80 | 100.0 | 80 | 100.0 | 240 | 100.0 | | |

The sentences used by children in explaining their teacher drawings were analyzed qualitatively and negative statements were particularly dealt with. Negative statement samples from 5-7 year-old children were exemplified in Sample 1, Sample 2, Sample 3 and Sample 4. In Sample 1, a 5 year-old boy said "I drew a male teacher. An angry teacher"; in Sample 2, a 5 year-old girl said "S/he is going to the pool to sunbathe. There are a lot of children at school. But there is only her/his child in the class and s/he is teaching him/her". In Sample 3, a 6 year-old boy described his teacher figure drawing as "I drew my teacher. S/he feels bad. S/he is shouting at everyone." Finally, a 7 year-old boy expressed his feelings as "I drew my teacher. Our teacher was angry at us, but then his/her anger waned."

Discussion and Conclusion

This study aimed to analyze how the figure of teacher, who is a role model for children in early childhood after their parents, is reflected in their drawings by using the "draw a teacher" technique. The findings will be discussed under three headings: differences in the emotional dimension with respect to age, age-gender and statements.

The analysis of the emotional dimension of children's teacher drawings with respect to age showed that drawing displaying impulsivity, insecurity-inadequacy and anger-aggression were fewer in the 7-year group than other age groups. When the entire sample is considered, it can be seen that as children grow older, there is a meaningful decrease in emotional indicators in their drawings.

The analysis of the emotional dimension of children's teacher drawings with respect to age and gender showed that boys drew more insecurity-inadequacy indicators at ages 5 and 6, while gender was not a meaningful factor in any category in 7-year-old children. Across the entire sample, more indicators were drawn in the category of anger-aggression at age 6. At the same time, gender was not observed to be a meaningful factor across the entire sample or in any age group in relation to anxiety related drawing traits.

Previous studies have shown that impulsivity indicators in children's drawings may reflect emotional discomfort (Hammer, 1958; Machover, 1949), the indecision of a figure may reflect weakness in human and peer relations, weak coordination in movements and lack of environmental stimuli (Albertyn, 1994; Cox, 1993; Jones, 1992; Kaufman & Wohl, 1992; Koppitz, 1968). Drawings related to the insecurity-inadequacy category reflects the tendency of one's personality to change quickly under various effects (Machover, 1949), mental insufficiency and failure (Koppitz,1968), non-compliance, disobeying rules, hostile emotions and lack of strength and power (Cox,1993; Gillespie, 1994; Koppitz, 1968; Kaufman & Wohl, 1992; Yavuzer, 1995).

When evaluating the emotional indicators in children's teacher drawings, it is necessary to consider the developmental characteristics of 5-7 year-old children who constitute the sample of this study. In the early childhood period, children are self-centered, cannot distinguish between fantasy and reality, and rational thinking is not yet developed. While self-centeredness is at its peak at age 2, it gradually declines towards age 7. The main reason why fantasy and reality cannot be distinguished and why children cannot think rationally at this age is that their cognitive skills are not yet developed. However, it has been evidenced through research that children begin to understand and accept that there are other viewpoints other than theirs starting from the second half of age 6. With this understanding, they start to distinguish fantasy from reality and gradually develop rational thinking (Camaioni et al. 1998; Gzesh et al., 1985; Lloyd et al., 1995; Loomis & Knapp, 2003). At the same time, it should be noted that physical and motor skill development happens very fast between the ages of 5 and 9 (Brown, 1990; Cherney et al., 2006; Dağlıoğlu & Deniz, in press; Özer, 2009). It was found in most studies about children's drawings that girls drew more details than boys (Brown, 1990; Cherney et al., 2006; LaVoy et al., 2001) and showed more development in fine motor skills (Halpern, 2000).

Drawings related to anger-aggression have been interpreted as verbal aggession, ambition of gaining sadistic emotions, discussing issues considered to be taboos by the society, making an effort to be love and be loved, insufficiency in manual skills, and a weakness in controlling bodily anxiety and stimuli (Albertyn, 1994; Cox,1993; Gillespie, 1994; Karp, 1997; Kaufman &Wohl, 1992; Koppitz, 1968; Mortensen, 1991). Many studies exploring child aggression found that boys display these behaviors more than girls (Orçan & Deniz, 2004; Gürşimşek et al., 2004; Dizman, 2003; Şehirli, 2007; Mccoby & Jacklin, 1980). In a study by Dağlıoğlu, Deniz and Kan (2010) involving preschool children's drawings, characteristics of emotional indicators particularly at age 6 were found to preferred mostly by boys. Kanlıkılıçer (2005) studied 3-6 year old children's behavior problems with respect to certain variables and found that boys displayed more problem

behaviors than girls. This is parallel to the findings of the present study.

When these emotional indicators in children's teacher drawings are evaluated in general, it can be said that children had disagreements in their relationships with their teachers, felt insecurity and anger, boys' drawings had more emotional indicators, and as children grow this type of drawings decrease.

This study evaluated the child-teacher relationship from children's perspective by using their drawings. It was found in studies which evaluated the teacher-child interaction from the perspective of teachers that (Birch & Ladd, 1997; Hamre & Pianta, 2001; Harrison et al., 2007; Pianta et al., 1995) when children had more negative than positive emotions about their teachers, this led to poorer academic success, more discipline problems, weaker social skills, and less adaptive behaviors during group work in class. In a study by Cugmas (2004), children's emotional attachment to their teachers was found to be highly distinctive, and a weak relation was found between children's drawings and teachers' evaluations. At the same time, Harrison et al. (2007) and Valeski and Stipek's (2001) studies showed a strong correlation between preschoolers' relationships with their teachers and their feelings for school attitudes. Studies conducted with children in later years of elementary school found positive correlations between loyalty to teachers and the school as stated by children and their classroom competence as evaluated by teachers (Murray & Greenberg, 2000). These studies revealed that children's drawings can be used as a tool in defining their adaptation problems at school and the teacher-child relationship.

In studies conducted by considering children's emotional statements about their teacher drawings, it can be observed that 5 and 6 year-old children express themselves in more sentences compared to 7 year-olds. When the content of sentences is examined, it can be seen that 5-6 year-old children use more negative statements compared to 7 year-olds and that the latter refrain from expressing their feelings and thoughts concerning their drawings. In addition to this, it was determined that more than 75% of children have positive thoughts about their schools and teachers. This result suggests that the majority of children have adapted to their schools and teachers, and that they have developed an attachment with their teachers, too.

These results may be attributed to the characteristics of the developmental stage which the children are in. Additionally, it may be asserted that 5 and 6 year-old children can easily and naturally express their positive or negative feelings and thoughts, whereas 7 year-olds are shy in doing so since they are in a different developmental stage, have passed onto a different educational environment from pre-school, and thus are trying to adapt to a new environment. This is also parallel to the result that, although not meaningful, their scores from emotional indicators in the category of shyness-timidness according to age increase as children get older.

In this study, the negative statements that children used in relation to their teacher drawings were also analyzed. As a result, as can be understood in the samples provided above (Sample 1, Sample 2, Sample 3 and Sample 4), it should be remembered that teaching is an occupation which requires professionalism. Early childhood is a critical period in life, and the attitudes and behaviors gained during early childhood education are usually permanent. As has been pointed out before, there are certain personal and professional qualities that early childhood education teachers should possess. It should also be noted that children adopt basic attitudes and behavior through modeling. Çorbacı et al. (2003) analyzed the opinions of inspectors and instructors, and school managers and parents concerning teachers, and found that inspectors and instructors had a more negative opinion of the teachers compared to parents and school managers. A similar study was carried out by Gökalp (2003) in which the participants were teachers, inspectors, school managers, instructors and parents from primary and high schools located in seven different city centers across Turkey. His findings revealed that teachers' field knowledge is generally insufficient; they cannot follow new developments; and they do not love their profession. These findings point to the fact that teachers are generally not open to learning and updating their knowledge and, even worse, they do not love the profession of teaching. On the other hand, in another study aiming to analyze Turkish and American early childhood teachers' interaction with children, it was found that Turkish teachers had a closer relation with children compared to their American counterparts (Beyazkürk & Kesner, 2005).

The findings from this study suggest that children reflect their development and culture in their teacher drawings and, as they grow older, they refrain from expressing their feelings and thoughts more, especially the negative ones. In addition to this, it can be seen that teacher's personal and professional competencies play an important role. From the way in which children explain their teacher drawings, it can be said that they reflect negative teacher attitudes in their drawings. However, as they grow older, the negativity reflected in the drawings is not reflected similarly in statements. Harrison's (2007) study has revealed that children's teacher drawings provide important clues as to the emotional quality of the interaction between the teacher and child. Thanks to this tool, it is easier to reflect negative, difficult and hard-to-express emotions in drawings instead of directly stating them. As a result of this study, it was concluded that the relationship between children's teacher drawings and teachers' scores of their interaction with the children is far more powerful than the relation between the children's drawings and verbal statements.

In this study, the perspective of the teacher was omitted and the interaction between the teacher and child was limited to the children's drawings only. Thus, the results of this study reflect the teacher solely from the children's point of view. In addition, the limited sample size should be considered in generalizing the results. This study used Koppittz' Human Figure Drawing, a projective technique developed towards the end of the 1960's, in order to evaluate children's teacher drawings. In a study carried out by Catte and Cox (1999), it was found that Koppitz' original criteria are still largely up-to-date (except for 4 items) and that many evaluation criteria developed in this field use Koppitz' criteria. Due to the limited sample size in this study, non-parametric tests were used. This necessitates more careful and limited interpretation of the results obtained.

The following may be recommended in light of the findings of this study:

It can be suggested that teacher preparation programs and in-service training for teachers should emphasize ways of interpreting children's feelings and thoughts from their drawings and of maintaining a positive teacher-child interaction.

For children to adapt to school and reveal their true potentials, it is crucial to evaluate the teacher-child relationship both from the teacher's and the students' perspective, and to determine how children perceive their teacher.

Drawings from children's perspective, teacher and student statements, and different measurement tools such as observation and interviews may be used in order to evaluate the teacher-child interaction. It is believed that conducting future comparative studies on different age groups, school types, children from different socioeconomic levels and with different developmental characteristics will be useful.

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