PARents’ VIeWs REGARDING HOMEWORKS GIVEN IN SCIENCE COURSES

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Introduction

Parental participation in the process of education is very important for student success at school. It consists of various dimensions such as home-based education activities, school-based education activities and cooperation of family members (Manz, Fantuzzo and Power, 2004). It is stated that parental participation has positive effects on student development and success (Keith, Keith, Troutman, Bickley, Trivette and Singh, 1993; Booth and Dunn 1996; Epstein, Simon and Salinas, 1997) and parental participation in the school work provides developments on student behaviors in a positive way (Cordry and Wilson, 2004). Therefore, homework assignments in which parents have an important role in its effective use, are important in teaching and learning process.

The Benefits of Homework Assignments

Homework is defined as school studies or tasks which are done in or out of the class (Hartensteiner and Marek-Schroer, 1992; Cooper and Valentine, 2001; Gill, 2004). We come across with the homework at all education levels from primary school to university. In the literature, it is stated that homework has lots of functions. These can be ordered as gaining scientific thinking skills, researching, gathering information and reaching the result by organizing (Çepni and Çil, 2011), bridging between home and school (Forster, 2000), providing parents with information about their child’s education and school by putting them together (Department of Education, 2005; Dinçer and Ulutaş, 2005), getting better communication between parents, students and teachers (Van Voorhis, 2004; Olympia, Sheridan, Jenson, and Andrews, 1994), getting students adopt studying skills and habits, teaching individual study by redounding responsibility and discipline (National Parents Day Coalition, 1998; Cooper, 2001), getting ready for the subject, reinforcing the learnt items and providing reinforcement,
increasing the students’ level of understanding (Ramdass and Zimmerman, 2011). Moreover it can be said that homework plays an important role in transferring the items learnt in the class to the real life. Therefore, the importance of homework in science and technology course increases.

**TIMMS Achievement and Homework Relationship**

In science education, it is emphasized that homework assignments are important for new learning (Gennaro and Lawrenz, 1992). There are many studies in literature that revealed the positive effects of homework assignments in science course success (Van Voorhis, 2001; Özben, 2006; Kaplan, 2006; Cooper, Robinson and Patall, 2006; Hızmetçi, 2007; Sabah and Hammouri, 2007; Jones, 2007; Büyüktokatlı, 2009; Kumandaş and Kutlu, 2010). Also international studies such as Trends in International Mathematics and Science Study (TIMSS) emphasize the importance of homework. For instance, there was a positive correlation between the students’ success and the time they spent doing homework assignments (Postlethwaite and Wiley, 1992; Beaton, Martin, Mullis, Gonzalez, Smith, and Kelly, 1996). Thus, one can say that homework assignments play an important role in science education, which aims at understanding the scientific reasons of the events, facts, and situations that we usually come across in real life. However, some other research results stated that although more time is devoted for homework assignments in science class, the success decreases. Although countries like Taiwan, Singapore, Hungary, Japan and South Korea devote less time compared to Turkey, the success of these countries in science was higher in the 1999 and 2007 TIMSS Results (Özgün-Koca and Şen, 2002; Uzun, Bütüner and Yiğit, 2010). These results show the need for questioning the quality of homework assigned at science classes in Turkey. We can conclude that if quality and amount of the homework assignments are not well adjusted, its reflection on international exams can be negative.

**Related to Literature**

Generally, one can say that homework-related problems may cause academic failure, family-child conflict and family-school problems (Baumgartner, Bryan, Donahue, and Nelson, 1993; Olympia, Sheridan, and Jenson, 1994; Warton, 1998; Daniel-Crotty, 2000; Karustis, Power, Rescorla, Eiraldi, and Gallagher, 2000; Kralovec and Buell, 2000). Besides, it is reported that there are also problems related to quality of homework assignments and how parents perceive these assignments (Hersan and Kabapınar, 2008). Thus, it can be said that the parents’ views need to be considered while developing and assigning homework.

Analysis of the homework-related studies (Baumgartner, Bryan, Donahue and Nelson, 1993; Epstein, Simon, and Salinas, 1997; Warton, 1998; Cooper and Valentine, 2001; Markow, Kim and Lieberman, 2007; Öcal, 2009; Aladağ and Doğdu, 2009; Corretjer, 2009; Ari, 2010; Çiftçi, 2010; Kumandaş and Kutlu, 2010; Tüysüz, Karakuş and Tatar, 2010; Yılmaz and Tan, 2010; Günde, 2010; Gedik, Altıntaş and Kaya, 2011; Knímažkay, Kečeci and Zengin, 2011; Peltier, 2011; Deveci and Önder, 2013a; Deveci and Önder, 2013b; Wooten and Dillard-Eggers, 2013; Letterman, 2013) indicated no research conducted to present parents’ perceptions regarding homework assignments given in science courses. In science education related homework studies, some researchers focus on students (Easton and Bennet, 1990; Smith, 1997; Stecher, Klein, Solano, McCaffrey, Robyn, Shavelson and Haertel, 1998; Klein and Stecher, 1998; Van Voorhis, 2001; Hong, 2001; Karamüstafoğlu, Çostu and Ayas, 2005; Yeşilyurt, 2005; Kuro and Como, 2006; Kaplan, 2006; Skaggs, 2007; Seebaugh; 2007; Hızmetçi, 2007; Bator, 2007; Aladağ and Doğdu, 2009; Corretjer, 2009; Kumandaş and Kutlu, 2010; Gedik, Altıntaş and Kaya, 2011; Knímažkay, Kečeci and Zengin, 2011; Deveci and Önder, 2013a), some others on teachers (Epstein and Van Voorhis, 2001; Altun and Arkan 2007; Turanlı, 2009; Ersoy and Anagün, 2009; Ari, 2010; Çiftçi, 2010; Peltier, 2011). In addition, a few studies focus on parents (Tüysüz, Karakuş and Tatar, 2010; Yılmaz and Tan, 2010; Van Voorhis 2011; Deveci and Önder, 2013b). For instance, Albayrak, Yildiz, Berber and Büyükkasap (2004), have examined the views of parents about extracurricular teaching activities given at primary schools. Parents were found to believe that extra-classroom activities help students to learn, they enjoy student centered activities and activities where teacher assistance is available. Examining parents’ views about
family participation in the homework assignments on science education, Yılmaz and Tan (2010) found that family involvement increases students' academic achievement and strengthens communication and collaboration among family, school, and student. However, families also reported that they had trouble in finding tools and resources. Tam and Chan (2009) examined parental involvement in homework assignments and its relationship with primary school children's educational outcomes within the Chinese sociocultural context of Hong Kong. The results showed that primary school children across grade levels devote a substantial amount of time each day after school to homework assignments and revision, while parental involvement in the homework process varies. Such variation in parental involvement is found to relate to the child's grade level as well as the parent's educational attainment. Again in children's academic efficacy with higher parental involvement level is observed among junior students as well as those with parents of lower educational attainment. Tüysüz, Karakuyu and Tatar (2010) tried to identify perceptions of parents regarding performance tasks and problems they face while their children are completing those assignments by surveying 372 parents of 4th and 5th grade students. According to the study, parents think that performance tasks are useful and essential for their children, and contribute significantly to the social development of their children. Moreover, in the study it was reported that parents' attitudes and behaviors about helping their child in performance tasks were high. Tompkins (2010) investigated the experiences of 3 families about homework assignments given in primary school. He found that homework assignments had a negative effect on family time and experiences. He also found inequity in the amount of homework assigned to students of the same grade, especially in families that had a child working on an Individualized Education Plan. Parents shared their difficulty in helping to complete the assignments due to lack of understanding in the content area or when children refuse to complete their homework. Van Voorhis (2011) conducted 2-year longitudinal study in the frame of “Teachers Involve Parents in Schoolwork (TIPS)” program in elementary mathematics, language arts, and science in middle school. Each weekly standards-related TIPS assignment included specific instructions for students to involve a family partner in a discussion, interview, experiment, or other interaction. This study reported beneficial results of three longitudinal studies of TIPS interventions in comparison with regular homework in math, science, and language arts in the elementary and middle grades. Effect sizes and regression models consistently highlight TIPS (especially the 2-year group) as significant and positive predictors of achievement and emotional outcomes over the control condition. The studies mentioned above present that parents' involvement to homework practices and their perceptions regarding homework assignments as well as the quality of homework assignments have an effect on students' skills and performance at school. Therefore, in the current study, it was aimed to present a large group of parents' opinions regarding homework assignments given in science courses. Thus, in this research, the parents' attitudes towards homework, their views towards the function of those assignments and their behaviors about homework practices are questioned.

Methodology of Research

The study has been conducted within a survey research approach. Surveys can be utilized to obtain information from the respondent(s) about their opinion, characteristics, attitudes or prior experience (Johnson, 2001). Moreover, it allows to examine a group, event and problem, and to determine an existing situation or its features (Fraenkel and Wallen, 2005; Karasar, 2009; Büyüköztürk, Çakmak, Akgün, Karadeniz and Demirel, 2009; Çepni, 2010). To this end the questionnaires were administered by the researchers.

Sample

This research was conducted in 2010-2011 academic year. The population of the study consisted of the parents of the 7th and 8th grade students in the city center of Osmaniye in Turkey and the sample of the study consisted of 764 parents. In this study we used convenience sampling because of time and availability constraints. A convenience sample is a set of persons who are convenient for study (Fraenkel and Wallen, 2005).
**Data Collection Tool**

To acquire data from parents regarding homework assignments given in Science and Technology Classes we used “Parents Homework Scale (PHS)” which consisted of function subscale (FSS), attitude subscale (ASS), and behavior subscale (BSS). The PHS was developed by Deveci and Önder (In Press) and consisted of 27 items.

While developing PHS, first of all the items of the scale were written considering related scales in the literature. Then, the items were reviewed by three science education experts and two science teachers and according to their advice, necessary corrections were made and as a result the scale was composed of 42 five point Likert type (1 = “I definitely don’t agree”, 2 = “I don’t agree”, 3 = “I am not sure”, 4 = “I agree”, 5 = “I definitely agree”) items. After that, the pilot study was conducted with 180 parents and explanatory factor analysis was performed. The items with .50 or below factor loading and with item-total correlation below .39, are omitted from the scale. The variance explained is found as 44% for FSS, 49% for ASS and 46% for BSS. The alpha reliability coefficients for each subscale are found as .90 for FSS, .83 for ASS and .77 for BSS. The lowest score that can be obtained is 14, and the highest score is 70 for FSS, which consist of 14 items; while the lowest score is 7, the highest score is 35 for ASS, which consists of 7 items. Finally, the lowest score is 6; the highest score is 30 for BSS, which consist of 6 items. Obtaining a high score on the scale means that the parents have positive opinions about science homework assignments in the corresponding sub-scale.

**Data Analysis**

The data were first examined by Kolmogorov-Smirnov test for normal distribution. This test is used when the number of sample is over 50. Since the test results were significant (p <0.05), the researchers used non-parametric tests. Therefore, in the study, Mann-Whitney U (MWU) Test, Kruskal-Wallis H (KWH) Test is used (Büyüköztürk, 2009; Çepni, 2010; Baştürk, 2010; Özdamar, 2011). The data were analyzed by SPSS 18.0 packet program and the level of significance was set as .05.

**Results of the Study**

This part provides demographic information regarding parents (gender, educational background, occupation, average monthly income) whose perceptions are analysed and the results of inferential statistics.

**Descriptive Statistics**

Demographic information regarding parents is presented in Table 1.

**Table 1. Demographics.**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Category</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td>Female</td>
<td>257</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>507</td>
</tr>
<tr>
<td>Educational Background</td>
<td>Illiterate *</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Primary School Graduate</td>
<td>253</td>
</tr>
<tr>
<td></td>
<td>Secondary School Graduate</td>
<td>153</td>
</tr>
<tr>
<td></td>
<td>High School Graduate</td>
<td>193</td>
</tr>
<tr>
<td></td>
<td>Graduate</td>
<td>138</td>
</tr>
</tbody>
</table>
When Table 1 is examined it is seen that there are 507 male and 257 female parents. Also, it shows that 27 parents are illiterate, 253 parents are primary school graduate, 153 parents are secondary school graduate, 193 parents are highschool graduates and 138 parents are university graduates. It is inferred that most of the parents who participated in the study are primary school graduates. Besides, it is seen that 131 of them are self employed people, 140 of them are civil servant, 20 of them are farmers, 124 of them are workers, 86 of them are artisans, 75 of them are retired and 188 of them have different professions except from these occupations. The parents who fill the “other” field in the scale have different professions like peddler or they are unemployed. The average income of the 128 parents is between 250-500 TL, 157 parents’ is between 500-750 TL, 191 parents’ is between 751-1000 TL, 189 parents’ is between 1001-2000 TL and 85 parents’ is more than 2000 TL.

**Inferential Statistics**

In order to test whether parents’ perceptions differ with respect to gender MWU test was administered and the results are presented in Table 2.

### Table 2. Results of MWU-Test in Terms of Gender.

<table>
<thead>
<tr>
<th>Sub-Scales</th>
<th>Gender</th>
<th>N</th>
<th>Mean Rank</th>
<th>Sum of Ranks</th>
<th>U</th>
<th>p value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function</td>
<td>Male</td>
<td>507</td>
<td>377.11</td>
<td>191193.50</td>
<td>62415.50</td>
<td>0.34</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>257</td>
<td>393.14</td>
<td>101036.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attitude</td>
<td>Male</td>
<td>503</td>
<td>374.21</td>
<td>188226.00</td>
<td>61470.00</td>
<td>0.26</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>257</td>
<td>392.82</td>
<td>100954.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Behavior</td>
<td>Male</td>
<td>492</td>
<td>361.77</td>
<td>177991.00</td>
<td>56713.00</td>
<td>0.18</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>245</td>
<td>383.52</td>
<td>93962.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
As seen in Table 2, there is no significant difference between the sub-scale scores of parents by gender. Furthermore, when the scores obtained from each sub-scale of parents were analysed with respect to gender, it is observed that they are quite close to each other.

In order to investigate whether parents’ perceptions differ with respect to level of education, profession and monthly income KWH test was performed and results are presented in Table 3, Table 4 and Table 5.

Table 3. Results of KWH Test in Terms of Education Status.

<table>
<thead>
<tr>
<th>Sub-Scales</th>
<th>Education Levels</th>
<th>N</th>
<th>Mean Rank</th>
<th>Chi Square ($\chi^2$)</th>
<th>p value</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Illiterate</td>
<td>27</td>
<td>429.26</td>
<td>43.41</td>
<td>0.00*</td>
<td>1&gt;5, 2&gt;5</td>
<td></td>
</tr>
<tr>
<td>2. Primary School</td>
<td>253</td>
<td>417.73</td>
<td></td>
<td></td>
<td></td>
<td>3&gt;5, 4&gt;5</td>
</tr>
<tr>
<td>3. Secondary School</td>
<td>153</td>
<td>413.27</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. High School</td>
<td>193</td>
<td>392.24</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Graduate</td>
<td>138</td>
<td>275.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attitude</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Illiterate</td>
<td>27</td>
<td>281.56</td>
<td>6.71</td>
<td>0.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Primary School Graduate</td>
<td>252</td>
<td>378.76</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. High School Graduate</td>
<td>192</td>
<td>376.57</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Graduate</td>
<td>136</td>
<td>390.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Behavior</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Illiterate</td>
<td>23</td>
<td>268.28</td>
<td>9.31</td>
<td>0.054</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Primary School Graduate</td>
<td>246</td>
<td>353.81</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Secondary School</td>
<td>147</td>
<td>390.51</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. High School Graduate</td>
<td>186</td>
<td>386.81</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Graduate</td>
<td>135</td>
<td>365.87</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*p<0.05

As seen in Table 3, there is no significant difference in attitude and behavior sub-scale scores of parents with respect to their education levels (For Attitude: $\chi^2 = 6.71, p > 0.05$; For behavior: $\chi^2 = 9.31, p > 0.05$). But there is a significant difference in function sub-scales scores [$\chi^2 (sd=4, n=764) =43.41, p < 0.05$]. When the statistical results between function sub-scale scores and education levels are examined, it is observed that the function sub-scale scores of parents who is illiterate or completed primary school, secondary school, high school are higher than the function sub-scale scores of parents who are university graduates.

Table 4. Results of KWH Test in Terms of Profession.

<table>
<thead>
<tr>
<th>Sub-Scales</th>
<th>Profession</th>
<th>N</th>
<th>Mean Rank</th>
<th>Chi Square ($\chi^2$)</th>
<th>p value</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Self-employed</td>
<td>131</td>
<td>413.06</td>
<td>27.50</td>
<td>0.00*</td>
<td>1&gt;2, 4&gt;2, 5&gt;2</td>
<td></td>
</tr>
<tr>
<td>2. Civil Servant</td>
<td>140</td>
<td>304.06</td>
<td></td>
<td></td>
<td></td>
<td>6&gt;2, 7&gt;2</td>
</tr>
<tr>
<td>3. Farmer</td>
<td>20</td>
<td>430.40</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Worker</td>
<td>124</td>
<td>394.96</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Artisan</td>
<td>86</td>
<td>425.28</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Retired</td>
<td>75</td>
<td>420.63</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Other</td>
<td>188</td>
<td>371.52</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
As seen in Table 4, there is no significant difference in attitude and behavior sub-scale scores of parents with respect to their profession (For Attitude: $\chi^2 = 8.14$, $p > 0.05$; For behavior: $\chi^2 = 4.25$, $p > 0.05$). But there is a significant difference in function sub-scales scores ($\chi^2 (sd=6, n=764) = 27.50$, $p < 0.05$). When the statistical results between function sub-scale scores and professions examined, it is observed that the function sub scale scores of parents who are self-employed, worker, artisan, retired or that are indicated as “other” are higher than the function sub scale scores of parents who are civil servant.

Table 5. Results of KWH Test in Terms of Average Monthly Income.

<table>
<thead>
<tr>
<th>Sub-Scales</th>
<th>Average Monthly Income</th>
<th>N</th>
<th>Mean Rank</th>
<th>Chi Square ($\chi^2$)</th>
<th>p value</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function</td>
<td>250-500</td>
<td>128</td>
<td>433,66</td>
<td>30,10</td>
<td>0.00*</td>
<td>1&gt;4, 1&gt;5</td>
</tr>
<tr>
<td></td>
<td>501-750</td>
<td>157</td>
<td>390,34</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>751-1000</td>
<td>191</td>
<td>393,86</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1001-2000</td>
<td>189</td>
<td>346,68</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>More than 2000</td>
<td>85</td>
<td>283,34</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attitude</td>
<td>250-500</td>
<td>128</td>
<td>345,16</td>
<td>8,10</td>
<td>0.08</td>
<td></td>
</tr>
<tr>
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<td>501-750</td>
<td>157</td>
<td>399,87</td>
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<td>751-1000</td>
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<td>376,38</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>1001-2000</td>
<td>188</td>
<td>385,60</td>
<td></td>
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<tr>
<td></td>
<td>More than 2000</td>
<td>83</td>
<td>333,31</td>
<td></td>
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<tr>
<td>Behavior</td>
<td>250-500</td>
<td>123</td>
<td>328,74</td>
<td>7,34</td>
<td>0.11</td>
<td></td>
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<tr>
<td></td>
<td>501-750</td>
<td>151</td>
<td>362,02</td>
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<td>751-1000</td>
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<td></td>
<td>1001-2000</td>
<td>186</td>
<td>387,59</td>
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</tr>
<tr>
<td></td>
<td>More than 2000</td>
<td>82</td>
<td>338,29</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*p<0.05
As seen in Table 5, there is no significant difference in attitude and behavior sub-scale scores of parents with respect to their monthly income (For Attitude: $\chi^2 = 8.10, p > 0.05$; For behavior: $\chi^2 = 7.34, p > 0.05$). But there is a significant difference in function sub-scales scores [$\chi^2 (sd=4, n=750) = 30.10, p < 0.05$]. When the statistical results between function sub-scale scores and average monthly incomes are examined, it is observed that the function sub-scale scores of parents who have average monthly incomes of 250-500, 501-750 and 751-1000 TL are higher than the function sub-scale scores of parents who have average monthly incomes of 1001-2000 and More than 2000 TL.

Discussion

In this study parents perceptions regarding homework assignments given in science and technology course were investigated. Results of the study presented a significant difference in the views of the parents about homework according to average monthly income, occupation and educational background ($p<.05$), but no significant difference was observed according to the gender ($p>.05$). Öcal (2009) did not find a significant difference in parents’ strategies toward homework practices of 4th and 5th graders’ according to educational background, job and monthly income. Güney (2010) and Tüysüz, Karakuyu and Tatar (2010) also found similar results. At this point, one can say that parents’ attitudes towards homework and their behaviors for the homework practices show similarity according to gender. The difference in research results can be associated with different grades and quality of homework assignments given.

The perceptions of parents, whose average monthly income is low, are more positive than the perceptions of parents who have higher average monthly income, when the functionality of the homework assignments are considered. The reasons can be explained like that: the children of the families, whose income is low, don’t have a chance to get a private lesson or attend a private course. Therefore, the family pays more attention to the homework assignments. Moreover, the families, who are in low socio economic class, stated that the homework assignments have negative effects on family life on the other hand, the families who are in middle and high socio economic class state vice versa (Perry, 2003). Similar results were also found by Keith et al. (1993), Ahioğlu (2006) and Şeker (2009). This can be because of the fact that the families who are in low socio economic class generally do not have a good educational background, and they have negative attitudes towards homework assignments because of the fact that they are not able to help their children as much as they want.

According to categories of occupation, self employed people, farmers, workers, artisans, retired parents were found to have positive thoughts about the homework assignments given in science and technology course than the civil servants. This may result from the fact that the civil servants cannot spend much time with their children and therefore, they cannot pay attention to the extracurricular activities given as homework to their children. Moreover they may have negative opinions regarding the functionality of the homework assignments since they generally consider those assignments as unqualified activities. Similarly, Şeker (2009) found that parents’ participations regarding students’ education and teaching activities show no difference according to parents’ occupation. Doğru (2005) also found similar results.

Finally, it is found that illiterate, primary, secondary and high school graduate parents’ opinions for the homework assignments given in science and technology course were more positive than the university graduate parents’ opinions. This situation can be associated with the perception of university graduate parents, who have more knowledge and experience, that homework assignments do not have any educational functionality or are not qualified. In the study of Kotaman (2008) it was found that the university graduate parents participate more in their children’s education and teaching period than the parents who are not university graduates. Albayrak, Yıldız, Berber, and Büyükkasap (2004) also reached the similar results. However, Tam and Chan (2009) found parallel results to current study. They have carried out their study on primary school students in Hong Kong and found that the families, who have low educational background, participate in their children’s
academic activities more. Also, they found that parents get involved in student’s homework to the
detriment of the parents’ education level (Balli, 1998; Epstein, 1986; Hoover-Dempsey, Bassler and
Burow, 1995). Similarly, it was found that parent training positively influences homework practices
(Patall, Cooper, & Robinson, 2008). Therefore, parents’ educational background is effective in de-
termining the quality and the function of the homework. The initial purpose of the parents who
have a low educational background is to help their children rather than to question the quality of
the homework assignment. The parents who have a high educational background pay more at-
tention to the functionality of the homework. For this reason, it can be said that the parents who
have high educational background have negative views about the functionality of the homework
assignments given.

Conclusion

Finally, it is seen that the university graduates in the category of educational background, the
families who have high incomes in the category of income level and the civil servants in the cat-
egory of occupation have negative views when it is compared with the other variables. This remarks
that homework assignments given in science and technology courses may be of poor quality and
nonfunctional. In this respect, parents’ views are important in the aspects of giving ideas about
the quality of the homework.

Implications

Depending on the research results, in the forthcoming studies, case studies or phenomeno-
logical studies can be designed and also detailed interviews can be arranged with few numbers of
parents. Furthermore, students’ homework documents can be examined and examinations about
the qualities of the homework can be applied. The same study can be conducted in different cities
and countries and comparisons can be done. Similar applications can be utilized for other fields of
study (math education, social science education, history education, etc.).

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