

## Chapter 12 Gifted and Enrichment

<p><b>1.</b> Seven friends compare how much they each receive for a weekly allowance. The lowest amount of allowance is \$10 and the highest amount is \$15. The sum of all seven allowances is \$90, and both the median and the mode are \$12. Determine the allowance received by each of the seven friends.</p>	<p><b>2.</b> An Olympic swimmer had five training times for the 100-m freestyle ranging from 48.99 s to 59.71 s. Once any outliers are removed, the median and the mode training times are 49.10 s, and the mean training time is 49.13 s. What was the slowest training time, when no outliers are included?</p>																								
<p><b>3.</b> Robin tracked the scoring by the school soccer team over the last nine games. The range of scores was 6 goals. In one game, they had 2 goals, which was their lowest number of goals. The total number of goals scored by the school team in the nine games was 43. Robin found that the median of the goals was 5 and the mode was 6. In no game did the team score 7 goals. What number of goals did the team score in each of the nine games?</p>	<p><b>4.</b> Tran received the following number of text messages during the time that he kept track:</p> <table border="1" data-bbox="868 825 1484 1186"> <thead> <tr> <th>Day</th> <th>Week 1</th> <th>Week 2</th> </tr> </thead> <tbody> <tr> <td>Monday</td> <td>12</td> <td>12</td> </tr> <tr> <td>Tuesday</td> <td>12</td> <td>13</td> </tr> <tr> <td>Wednesday</td> <td>14</td> <td>15</td> </tr> <tr> <td>Thursday</td> <td>16</td> <td>15</td> </tr> <tr> <td>Friday</td> <td>21</td> <td>20</td> </tr> <tr> <td>Saturday</td> <td>23</td> <td>19</td> </tr> <tr> <td>Sunday</td> <td>7</td> <td>?</td> </tr> </tbody> </table> <p><b>a)</b> If the mean number of text messages during Week 1 is typical, how many text messages would he likely receive on Sunday of Week 2?</p> <p><b>b)</b> Identify the median number of messages each week.</p>	Day	Week 1	Week 2	Monday	12	12	Tuesday	12	13	Wednesday	14	15	Thursday	16	15	Friday	21	20	Saturday	23	19	Sunday	7	?
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