

<p>In 2005, after 1 year the value is:  <math>24,000 - .15(24,000) = 20,400</math>.</p> <p>In 2006 after 2 years the value is:  <math>20,400 - .15(20,400) = 17,340</math>.</p> <p>In 2007, after 3 years the value is:  <math>17,340 - .15(17,340) = 14,739</math>.</p> <p>So the value is \$14,739.</p> <p>© Olympia High School (2004) <span style="float: right;"><b>67</b></span></p>	<p><b>Answer is 25 students.</b> First find the number of 9th graders. Since 9th graders represent <math>\frac{1}{4}</math> of the total and 8th graders <math>\frac{3}{4}</math> of total, the 9th graders are <math>\frac{1}{3}</math> of the 8th graders or <math>\frac{1}{3} \times 150 = 50</math>. Next take the lowest percent of student passing which is 50%. <math>50\%</math> of <math>50 = 25</math>.</p> <p>© Olympia High School (2004) <span style="float: right;"><b>68</b></span></p>
<p><b>The correct choice is B.</b> 12 is the only multiple of 4 between 10 and 15. This means there is only 1 out of 6 chances to roll a multiple of 4. <math>\frac{1}{6} \times 200 = 67</math>, so the closest answer is 70.</p> <p>© Olympia High School (2004) <span style="float: right;"><b>69</b></span></p>	<p><math>* + \# = \\$ + \%</math>. Subtracting <math>\\$</math> from each side yields <math>* + \# - \\$ = \%</math>. Substituting this value for <math>\%</math> in the second equation yields <math>* + \\$ &lt; * + \# - \\$</math>. Therefore, <math>\\$ &lt; \# - \\$</math> so <math>2\\$ &lt; \#</math>.</p> <p style="margin-left: 40px;"><math>* \ \\$ \ \% \ \#</math></p> <p style="margin-left: 40px;"><math>* = 1</math>  <math>\\$ = 3</math>  <math>\% = 5</math>  <math>\# = 7</math></p> <p>© Olympia High School (2004) <span style="float: right;"><b>70</b></span></p>
<p>Let <math>x</math> represent the score on the first test. Then <math>x - 6</math> represents the score on the second test.</p> $x + x - 6 = 164$ $2x = 170$ $x = 85$ $x - 6 = 79$ <p>Let <math>y</math> be the score of the third test. Then</p> $y = 256 - 164$ $y = 92$ <p>Therefore, Craig's test scores were 85%, 79% and 92%.</p> <p>© Olympia High School (2004) <span style="float: right;"><b>71</b></span></p>	<p>d. Conduct a random phone survey</p> <p>© Olympia High School (2004) <span style="float: right;"><b>72</b></span></p>