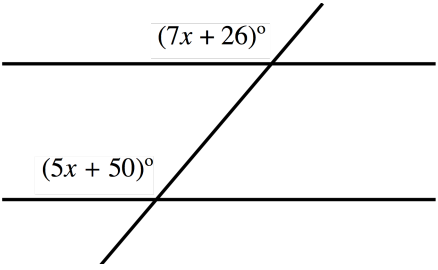


<p>1. (2 points) An image of a building in a photograph is 6 centimeters wide and 11 centimeters tall. If the image is similar to the actual building and the actual building is 174 meters wide, how tall is the actual building, in meters?</p>		1.  _____
<p>2. (2 points) If a girl 1.2 meters tall casts a shadow 2 meters long, how many meters tall is a tree that casts a shadow 75 meters long at the same time?</p>		2.  _____
<p>3. Solve: <math>-6x \geq 3(x - 9)</math></p>	<p>Two numbers are in the ratio 2 : 5. If 6 is subtracted from their sum, the result is 50. What is the larger number? (1) 55                      (3) 40 (2) 45                      (4) 35</p>	3.  _____
<p>4. There are 357 seniors in Harris High School. The ratio of boys to girls is 7 : 10. How many boys are in the senior class? (1) 210                      (3) 117 (2) 147                      (4) 107</p>	<p>7. On a map, 1 centimeter represents 40 kilometers. How many kilometers are represented by 8 centimeters? (1) 5                          (3) 280 (2) 48                        (4) 320</p>	5.  _____
<p>5. 74 is what percent of 105? (Round to the nearest tenth of a percent.)</p>	<p>8. During a recent winter, the ratio of deer to foxes was 7 to 3 in one county of New York State. If there were 210 foxes in the county, what was the number of deer in the county? (1) 90                        (3) 280 (2) 147                       (4) 490</p>	7.  _____

<p>9. Solve for <math>y</math>: <math>-9hy + 17b = 3hy + 12b</math></p>	<p>11. Express as a single fraction: <math>\frac{8m}{3} \div \frac{5}{a}</math></p>
<p>10. The sum of two consecutive integers is <math>-1</math>. The smaller integer is</p> <p>(1) 1                      (3) <math>-1</math>  (2) <math>-2</math>                    (4) 0</p>	<p>12. Solve: <math>-2(x - 3) &lt; -9(x - 5) + 10</math></p>
<p>13. (2 points)  Three relatives will share an inheritance of \$196,800 in the ratio of 3 to 7 to 2. How many dollars of the inheritance will each of the three relatives receive?</p>	
<p>14. Find the value of <math>x</math> in the diagram below.</p> 	<p>If <math>n + 7</math> represents an even number, the next larger even number is</p> <p>16. represented by</p> <p>(1) <math>n + 8</math>                      (3) <math>10n + 7</math>  (2) <math>n + 9</math>                      (4) <math>2n + 7</math></p>
<p>15. Express as a single fraction: <math>a + \frac{1}{b}</math></p>	<p>17. If two less than five times a certain number is equal to three times the number increased by 10, then what is the number?</p>

9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_
17. \_\_\_\_\_