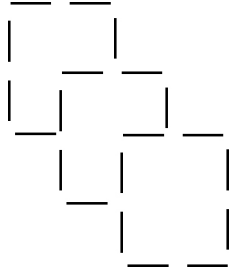


Chapter 11 Problems of the Week

<p>1. The sum of $a + b$ is 144. The quotient $\frac{a}{b}$ is 0.6. What is the difference $b - a$?</p>	<p>2. At lunch, 70% of the students chose white milk and 15% chose chocolate milk. If 84 students chose white milk, how many chose chocolate milk?</p>
<p>3. Distance equals speed multiplied by time. Use this information to write an equation for each of the following situations, then solve.</p> <p>a) A car travels at 50 km/h for 3.5 h. How far does it travel?</p> <p>b) A plane travels 700 km in 3.5 h. Find its average speed.</p> <p>c) How long does it take a car to travel 600 km at 120 km/h?</p>	<p>4. These overlapping squares were made with toothpicks. Continue the pattern until you have eight squares. Write an equation to calculate the number of toothpicks for any number of squares.</p> 
<p>5. Alianna and Jomar each want to start a savings account with \$20. Alianna wants to put \$3 in her account every month, while Jomar wants to add \$1 every month. How long will it take for Alianna to have twice as much money as Jomar?</p>	<p>6. The following equation converts temperature from degrees Celsius to degrees Fahrenheit.</p> $F = \frac{9}{5}C + 32$ <p>a) Convert 100 °C to degrees Fahrenheit.</p> <p>b) Convert 80 °F to degrees Celsius.</p>
<p>7. A rectangle has a length of $2x + 15$ and a width of $3x + 5$. The perimeter of the rectangle is 50 cm. What is the area of the rectangle?</p>	<p>8. Light travels 600 000 km in 2 s.</p> <p>a) Write an equation to determine the distance light travels in a given amount of time.</p> <p>b) If light from Pluto takes 4.5 h to reach Earth, how far away is Pluto?</p>