

LESSON
3

Proportional Relationships

Problem Solving: Solving Proportions

Write the correct answer.

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| <p>1. Euros are currency used in several European countries. On one day in October 2005, you could exchange \$3 for about 2.5 euros. How many dollars would you have needed to get 8 Euros?</p> <p>_____</p> | <p>2. A 3-ounce serving of tuna fish provides 24 grams of protein. How many grams of protein are in a 10-ounce serving of tuna fish?</p> <p>_____</p> |
| <p>3. Hooke’s law states that the distance a spring is stretched is directly proportional to the force applied. If 20 pounds of force stretches a spring 4 inches, how much will the spring stretch if 80 pounds of force is applied?</p> <p>_____</p> | <p>4. Beeswax used in making candles is produced by honeybees. The honeybees produce 7 pounds of honey for each pound of wax they produce. How many pounds of honey is produced if 145 pounds of beeswax?</p> <p>_____</p> |

Choose the letter for the best answer.

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| <p>5. For every 5 books her students read, Mrs. Fenway gives them a free homework pass for 4 days. Juan has accumulated homework passes for 12 days so far. What proportion would you write to find how many books Juan has read?</p> <p>A $\frac{4}{12} = \frac{x}{5}$</p> <p>B $\frac{4}{5} = \frac{x}{12}$</p> <p>C $\frac{4}{5} = \frac{12}{x}$</p> <p>D $\frac{5}{12} = \frac{4}{x}$</p> | <p>6. In his last 13 times at bat in the township baseball league, Santiago got 8 hits. If he is at bat 65 times for the season, how many hits will he get if his average stays the same?</p> <p>F $\frac{8}{65} = \frac{x}{13}$</p> <p>G $\frac{x}{65} = \frac{13}{8}$</p> <p>H $\frac{8}{x} = \frac{65}{13}$</p> <p>J $\frac{8}{13} = \frac{x}{65}$</p> |
| <p>7. A 12-pack of 8-ounce juice boxes costs \$5.40. How much would an 18-pack of juice boxes cost if it is proportionate in price?</p> <p>A \$9.40 C \$3.60</p> <p>B \$8.10 D \$12.15</p> | <p>8. Jeanette can swim 105 meters in 70 seconds. How far can she probably swim in 30 seconds?</p> <p>F 20 meters H 45 meters</p> <p>G 245 meters J 55 meters</p> |