

LESSON

Proportional Relationships

1

Problem Solving: Rates

Write the correct answer.

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| <p>1. A truck driver drives from Cincinnati to Boston in 14 hours. The distance traveled is 840 miles. What is the truck driver's average rate of speed?</p> <p>_____</p> <p>_____</p> | <p>2. Melanie earns \$97.50 in 6 hours. Earl earns \$296.00 in 20 hours. Who earns a higher rate of pay per hour?</p> <p>_____</p> <p>_____</p> |
| <p>3. Mr. Tanney buys a 10-trip train ticket for \$82.50. Ms. Elmer buys an unlimited weekly pass for \$100 and uses it for 12 trips during the week. Write the unit cost per trip for each person.</p> <p>_____</p> <p>_____</p> | <p>4. Metropolitan Middle School has 564 students and 24 teachers. Eastern Middle School has 623 students and 28 teachers. Which school has the lower unit rate of students per teacher?</p> <p>_____</p> <p>_____</p> |

Choose the letter for the best answer.

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| <p>5. Which shows 20 pounds per 5 gallons as a unit rate?</p> <p>A $\frac{20 \text{ lb}}{1 \text{ gal}}$ C $\frac{5 \text{ lb}}{1 \text{ gal}}$</p> <p>B $\frac{4 \text{ lb}}{1 \text{ gal}}$ D $\frac{1 \text{ gal}}{4 \text{ lb}}$</p> | <p>6. What is the unit price of a 6-ounce tube of toothpaste that costs \$3.75?</p> <p>F \$0.06</p> <p>G \$0.23</p> <p>H \$0.62</p> <p>J \$0.63</p> |
| <p>7. Max bought 16 gallons of gas for \$40.64. Lydia bought 12 gallons of gas for \$31.08. Kesia bought 18 gallons of gas for \$45.72. Who got the best buy?</p> <p>A Max got the best buy.</p> <p>B Lydia got the best buy.</p> <p>C Lydia and Kesia both paid the same rate, which is better than Max's rate.</p> <p>D Max and Kesia both paid the same rate, which is better than Lydia's rate.</p> | <p>8. A pack of 12 8-ounce bottles of water costs \$3.36. What is the unit cost per ounce of bottled water?</p> <p>F \$0.03 per ounce</p> <p>G \$0.04 per ounce</p> <p>H \$0.28 per bottle</p> <p>J \$0.42 per bottle</p> |