

Solving Problems with Unit Rates

Find the unit rate to answer the question. Label your answers.

1. A store receives a shipment of 2,700 eggs in 150 identical cartons.
How many eggs are in 40 cartons?

answer: _____

2. Mrs. Gomez spent 56 minutes on 7 customer service calls. If each call was the same length, how many minutes did 5 calls take?

answer: _____



answer: _____

5. Ambrose's Bakery has a rack that holds 20 baking trays. If 12 trays hold 1,440 cookies, how many cookies can the full rack hold?

answer: _____

6. Harrison drove 170 miles in $2\frac{1}{2}$ hours. At that speed, how far could he drive in 4 hours?

answer: _____

Name: _____

Intermediate

Solving Problems with Unit Rates

7. Cecilia and Diego get gas at the same station. Cecilia spends \$47.08 on 11 gallons. If Diego spends \$59.92, how many gallons will he get?

answer: _____

8. Troy can fit 114 books on 3 shelves. If he has 266 similar-sized books, how many similar-sized shelves would he need?

answer: _____

9. Convention organizers arranged 520 seats into 20 equal rows. How many seats were



answer: _____

11. A pack of 12 pairs of socks costs \$30. Assuming there is no discount for the pack, how much should 5 pairs of socks cost?

answer: _____

12. Perry's Painters painted 495 square feet in 6 hours and 36 minutes. At that speed, how much could they paint in half an hour? (*Hint: 60 minutes in an hour.*)

answer: _____

ANSWER KEY

Solving Problems with Unit Rates

Find the unit rate to answer the question. Label your answers.

1. A store receives a shipment of 2,700 eggs in 150 identical cartons.
How many eggs are in 40 cartons?

$$2,700 \div 150 = 18$$

Preview

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6. Harrison drove 170 miles in $2\frac{1}{2}$ hours. At that speed, how far could he drive in 4 hours?

$$170 \div 2\frac{1}{2} = 68$$

$$68 \times 4 = 272$$

answer: 272 miles

ANSWER KEY

Solving Problems with Unit Rates

7. Cecilia and Diego get gas at the same station. Cecilia spends \$47.08 on 11 gallons. If Diego spends \$59.92, how many gallons will he get?

$$47.08 \div 11 = 4.28$$

$$59.92 \div 4.28 = 14$$

answer: 14 gallons

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how much could they paint in half an hour? (*Hint: 60 minutes in an hour.*)

$$6 \times 60 + 36 = 396$$

$$495 \div 396 = 1.25$$

$$1.25 \times 30 = 37.5$$

answer: 37.5 square feet