ALBERT

Name _____ Date _____

Rate Word Problem Worksheet

Grade 6 · Common Core 6.RP.A.3b

> Solve unit rate problems including those involving unit pricing and constant speed.

Practice

Builds the skill step by step.

1. A train travels at a constant speed of 60 miles per hour. How far does it go in 4 hours?

2. Oranges cost $0.40 each. How much do 9 oranges cost?

3. A 6-pack of water bottles costs $3. What is the price per bottle?

4. A cyclist rides 45 miles in 3 hours at a steady speed. What is her speed?

   A. 42 miles per hour

   B. 15 miles per hour

   C. 48 miles per hour

   D. 135 miles per hour

5. Ms. Lee drives at 50 miles per hour. How many hours will it take her to drive 200 miles?

6. A box of 8 granola bars costs $4. How much does 1 granola bar cost?

7. A snail moves 3 feet per minute. How far does it move in 7 minutes?

8. Erasers cost $0.25 each. How many erasers can you buy with $2?

   A. 5 erasers

   B. 4 erasers

   C. 8 erasers

   D. 50 erasers

9. A water pump moves 15 gallons per minute. How many gallons does it move in 10 minutes?

10. Kim earns $11 per hour at her job. How much does she earn in 6 hours?

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On Level

Grade-level practice.

1. A 32-ounce jar of peanut butter costs $4.80. What is the price per ounce?

2. A jet flies 1,500 miles in 3 hours at a constant speed. At that speed, how far does it fly in 5 hours?

3. Which is the better buy?

   A. 3 pounds of rice for $4.20

   B. 2 pounds of rice for $3.00

   C. 5 pounds of rice for $6.00

   D. They all cost the same per pound

4. Lawn mowing takes Devon 45 minutes for 3 lawns of the same size. How long will 7 lawns take?

5. A car travels 220 miles on 8 gallons of gas. How many miles does it get per gallon?

6. If 4 notebooks cost $9.00, how much do 10 notebooks cost at the same price each?

7. A cheetah can run 70 miles per hour for short bursts. At that speed, how many miles would it cover in half an hour?

8. A faucet drips 2 cups of water every 5 minutes. How many cups drip in 1 hour?

9. Ben walks 2 miles in 40 minutes. At the same pace, how long does it take him to walk 5 miles?

   A. 80 minutes

   B. 100 minutes

   C. 43 minutes

   D. 200 minutes

10. A gym charges $135 for 9 months. What is the cost per month?

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Challenge

Multi-step and word problems that stretch it.

1. Store A sells 12 cans of soup for $15. Store B sells 8 cans for $9.60. How much do you save per can by buying at the cheaper store?

2. Maya bikes at 12 miles per hour. Her brother leaves from the same place at the same time and bikes at 9 miles per hour in the same direction. How far apart are they after 3 hours?

3. A printer prints 18 pages per minute. How many minutes will it take to print 30 copies of a 12-page report?

4. A family drives 195 miles in 3 hours. At that speed, how long will the remaining 130 miles take?

5. Juan types 42 words per minute. Lily types 270 words in 6 minutes. Which statement is true?

   A. Lily types 3 more words per minute than Juan.

   B. Juan types 3 more words per minute than Lily.

   C. They type at the same rate.

   D. Lily types 228 more words per minute than Juan.

6. Paint costs $28 per gallon, and 1 gallon covers 350 square feet. How much will it cost to paint a wall area of 1,050 square feet?

7. A 3-pound bag of apples costs $4.50 and a 5-pound bag costs $7.00. How much more do 15 pounds of apples cost if you buy them in 3-pound bags instead of 5-pound bags?

8. A hiker climbs 1,200 feet in 40 minutes. At this rate, how many feet does she climb in 1 hour?

9. Two friends earn money raking leaves. Ana earns $36 in 4 hours. Bo earns $50 in 5 hours. Working together at these rates, how much do they earn in 3 hours?

10. Theo says a 10-ounce bag of chips for $2.50 is a better deal than a 16-ounce bag for $3.84 because it costs less. Is he right? Use unit prices to explain.