ALBERT

Name _____ Date _____

Unit Rate Worksheet

Grade 6 · Common Core 6.RP.A.2

> Understand the concept of a unit rate a/b associated with a ratio a:b with b ≠ 0, and use rate language in the context of a ratio relationship.

Practice

Builds the skill step by step.

1. A car travels 150 miles in 3 hours at a steady speed. What is the unit rate in miles per hour?

2. Maria earns $48 for 6 hours of babysitting. How much does she earn per hour?

3. A pack of 5 notebooks costs $10. Which is the unit rate?

   A. $5 per notebook

   B. $0.50 per notebook

   C. $50 per notebook

   D. $2 per notebook

4. A printer prints 90 pages in 3 minutes. How many pages does it print per minute?

5. Sam read 120 pages in 4 days, reading the same number of pages each day. How many pages did he read per day?

6. A recipe uses 3 cups of flour for every 4 cups of sugar. How many cups of flour is that for each cup of sugar?

7. A farm stand sells 12 apples for $6. Which describes the price per apple?

   A. $2 per apple

   B. 6 apples per dollar

   C. $12 per apple

   D. $0.50 per apple

8. A runner finishes 12 laps in 4 minutes at a steady pace. How many laps does she run per minute?

9. A hose fills a 20-gallon tub in 5 minutes. How many gallons per minute does the hose put out?

10. There are 24 students sitting at 6 tables, with the same number at each table. How many students are at each table?

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On Level

Grade-level practice.

1. A team paid $75 for 15 hamburgers. What was the price per hamburger?

2. A bean plant grew 14 centimeters in 4 weeks, the same amount each week. How much did it grow per week?

3. The table shows how far a cyclist rides at a steady speed. What is the cyclist's unit rate in miles per hour?

Hours	Miles
2	26
5	65

4. Store A sells 6 granola bars for $3. Store B sells 8 granola bars for $5. Which store has the lower price per bar?

   A. Store B, at $0.63 per bar

   B. Store A, at $0.50 per bar

   C. Store A, at $2 per bar

   D. Store B, at $1.60 per bar

5. Rice is cooked with 5 cups of water for every 2 cups of rice. How many cups of water is that per cup of rice?

6. Jen types 270 words in 6 minutes. How many words does she type per minute?

7. A 2-pound bag of cherries costs $7. What is the cost per pound?

8. A snail crawls 9 feet in 12 minutes. Which is its unit rate?

   A. $\frac{4}{3}$ feet per minute

   B. 3 feet per minute

   C. 108 feet per minute

   D. $\frac{3}{4}$ foot per minute

9. A school bus carried 168 students in 4 trips, with the same number on each trip. How many students rode on each trip?

10. A club has 15 boys and 10 girls. How many boys are there for every 1 girl?

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Challenge

Multi-step and word problems that stretch it.

1. Ari runs 3 miles in 27 minutes. Bea runs 5 miles in 40 minutes. Who runs faster, and by how many minutes per mile?

2. A 12-ounce box of cereal costs $3.60. A 20-ounce box costs $5.00. Which box is the better buy, and what is its price per ounce?

3. A machine fills 450 bottles in 15 minutes. At this rate, how many bottles does it fill in 1 hour?

4. Lena paid $13.50 for 3 pounds of grapes. At the same price per pound, how much would 5 pounds cost?

5. A pancake recipe uses 2 cups of milk for every 3 cups of flour. Which statement is true?

   A. There is $\frac{2}{3}$ cup of milk for each cup of flour.

   B. There are $\frac{3}{2}$ cups of milk for each cup of flour.

   C. There are 5 cups of milk for each cup of flour.

   D. There is $\frac{2}{5}$ cup of milk for each cup of flour.

6. A car uses 12 gallons of gas to travel 336 miles. At this rate, how many miles can it travel on 5 gallons?

7. Four movie tickets cost $46. At the same price per ticket, how much do 7 tickets cost?

8. Ty says the unit rate for running 8 laps in 2 minutes is $\frac{1}{4}$ lap per minute. What mistake did he make, and what is the correct unit rate?

9. A pump fills a water tank at 8 gallons per minute. How many minutes does it take to put 200 gallons in the tank?

10. Printer A prints 84 pages in 7 minutes. Printer B prints 65 pages in 5 minutes. If both printers run at the same time, how many pages do they print together in 10 minutes?