

Lesson 7C ~ Problem-Solving With Proportions

Name _____ Period _____ Date _____

Solve each proportion.

1. $\frac{3}{9} = \frac{6x}{45}$

2. $\frac{10}{25} = \frac{y-4}{30}$

Solve each problem using a proportion. The answers are listed at the bottom of the page out of order without units. Cross out each answer once you find it.

3. A bicyclist rides 16 miles in 2 hours. How far will the bicyclist ride at this speed in 7 hours?

4. Six candles cost \$15.00. How many candles can you buy for \$22.50?

5. You paid \$32.00 for 10 gallons of gasoline. How much would you pay for 25 gallons of gasoline?

6. Laura ran 6 miles in 1.5 hours. How many *minutes* will it take her to run 9 miles at this rate?

7. Ken painted 14 meters of fencing in 1 hour. How many *centimeters* of fencing can he paint in 45 minutes?

8. Nick typed 275 words in 2.5 minutes. At this rate, how many *hours* will it take him to type 9,900 words?

9. Marta drove her car 448 miles before it ran out of gas. When she started her trip, her car had 14 gallons of gas. At this rate, how many gallons of gas would she need to travel 84,480 *feet*?

10. Cassie hiked at a rate of 3 miles per hour. At this rate, how many *yards* does she travel in 15 minutes?

Answers: 9 1050 80 0.5 56 1.5 135 1320