PRACTICE EXAM CHAPTER 6

Write the ratio as a ratio of whole numbers using fractional notation. Write the fraction in simplest form.

1) 6.7 to 10 1) _____

2) 190 kilometers to 80 kilometers 2) _____

3) $5\frac{1}{3}$ to $4\frac{5}{6}$ 3) _____

Write the rate as a fraction in simplest form.

4) 600 miles in 32 hours 4) _____

5) 7 cars for 49 people 5) _____

Write the rate as a unit rate.

6) 322 miles on 14 gallons of gas 6) _____

Find the unit price.

7) $52.00 for 5 compact discs 7) _____

Solve the proportion for the given variable.

8) $\frac{z}{7} = \frac{36}{30}$ 8) _____

9) $\frac{\frac{4}{3}}{\frac{12}{9}} = \frac{14}{n}$ 9) _____

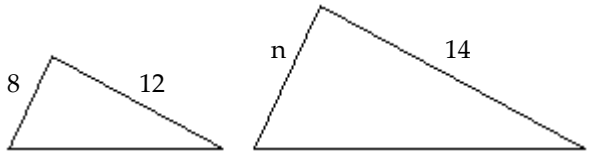
10) $\frac{-6}{n} = \frac{-0.6}{2.4}$ 10) _____

Solve.

11) On an architect's blueprint, 1 inch corresponds to 6 feet. If an exterior wall is 21 feet long, find how long the blueprint measurement should be. Write the answer as a mixed number if necessary. 11) _____

Given that the pair of triangles is similar, find the length of the side labeled n. Round your results to 1 decimal place, if necessary.

12) 12) _____

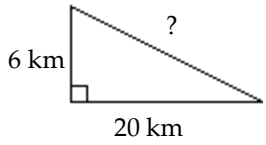


Find the square root.

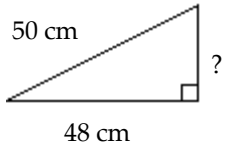
13) $\sqrt{\frac{25}{196}}$ 13) _____

Find the unknown length in the right triangle. If necessary, approximate the length to the nearest thousandth.

14) 14) _____



15) 15) _____



1) $\frac{67}{100}$

2) $\frac{19}{8}$

3) $\frac{32}{29}$

4) $\frac{75 \text{ mi}}{4 \text{ hr}}$

5) $\frac{1 \text{ car}}{7 \text{ people}}$

6) 23 mi/gal

7) $10.40 per compact disc

8) $\frac{42}{5}$

9) 14

10) 24

11) $3\frac{1}{2}$ in.

12) 9.3

13) $\frac{5}{14}$

14) 20.881 km

15) 14 cm