

Name: _____

Ratios and Rates

Find the unit rate.

1) $\frac{140 \text{ words}}{4 \text{ min}}$

2) $\frac{\$161}{7 \text{ shares}}$

3) $\frac{80 \text{ oz}}{2.5 \text{ servings}}$

4) $\frac{70 \text{ mi}}{5 \text{ h}}$

5) $\frac{24 \text{ muffins}}{\$15}$

6) $\frac{25 \text{ wins}}{40 \text{ games}}$

7) $\frac{26 \text{ points}}{3 \text{ quarters}}$

8) $\frac{\$320}{4 \text{ people}}$

Write the equivalent rate.

9) $\frac{15 \text{ mi}}{1 \text{ h}} = \frac{? \text{ ft}}{1 \text{ h}}$

10) $\frac{\$33,000}{1 \text{ year}} = \frac{? \text{ dollars}}{1 \text{ month}}$

11) $\frac{390 \text{ m}}{1 \text{ min}} = \frac{? \text{ m}}{1 \text{ h}}$

12) $\frac{300 \text{ mi}}{20 \text{ sec}} = \frac{? \text{ mi}}{1 \text{ min}}$

13) $\frac{\$43}{1 \text{ day}} = \frac{? \text{ dollars}}{1 \text{ week}}$

14) $\frac{45 \text{ min}}{2 \text{ mi}} = \frac{? \text{ h}}{1 \text{ mi}}$

15) You want to save all the money you earn to buy a guitar that costs \$400. You earn \$9 per hour and plan to work 15 hours each week for the next 3 weeks. Will you earn enough money in that time to buy the guitar?

16) Your family used two full tanks of gasoline on a road trip. Your car drives about 25 miles per gallon, and the tank holds 12 gallons of gasoline.

a. Find the approximate number of gallons of gasoline used on the trip.

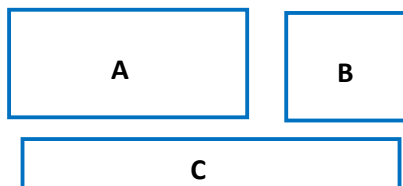
b. Find the approximate number of miles you drove on the trip.

c. Assume gasoline costs \$1.50 per gallon. How much did you spend per mile on gasoline?

d. You have \$20 to spend on gasoline for another trip. The trip is 350 miles. You spend the same amount per mile on gasoline as on the first trip. Do you have enough money for gasoline? Explain.

17) A restaurant sells drinks in 3 sizes of cups: small, medium, and large. The small cup costs \$0.89 and holds 9 ounces. The medium cup costs \$1.29 and holds 12 ounces. The large cup costs \$1.59 and holds 15 ounces. Which size cup costs the least per ounce?

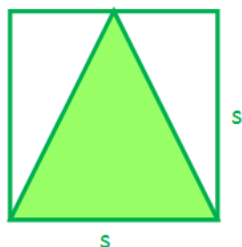
18) For each rectangle below, the measure of the longer side is the length, and the measure of the shorter side is the width.



- Which rectangle has the greatest ratio of length to width?
- For which rectangle is the ratio of length to width closest to 1:1?

19) Find the ratio of the area of the shaded region to the area of the total region. The figures are composed of squares and triangles.

A.



B.

