

Write the ratio using fractional notation. Do NOT simplify.

- 1) 349 to 91 1) _____

Write the rate as a fraction in simplest form.

- 2) 426 miles in 12 hours 2) _____

Write the sentence as a proportion.

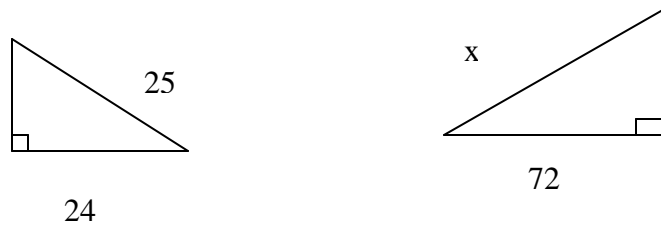
- 3) \$25 is to 40 bottles as \$10 is to 16 bottles 3) _____

Determine whether the proportion is true or false.

- 4) $\frac{8}{5} = \frac{24}{15}$ 4) _____

Given that the pair of triangles is similar, find the length of the side labeled x.

- 5) 5) _____



Fill in the blank with one of the words or phrases listed below.

Rate **unit rate** **ratio** **unit price**
Proportion **similar** **congruent**

- 6) A(n) _____ is the quotient of two numbers. It can be written as a fraction, using a colon, or using the word “to.” 6) _____

- 7) $\frac{x}{2} = \frac{7}{16}$ is an example of a(n) _____. 7) _____

- 8) A(n) _____ is a rate with a denominator of 1. 8) _____

- 9) A(n) _____ is a “money per item” unit rate. 9) _____

- 10) A(n) _____ is used to compare different kinds of quantities. 10) _____

- 11) _____ triangles have exactly the same shape but not necessarily the same size. 11) _____

12) A basketball player made 38 out of 100 attempted free throws. What percent of free throws was made? 12) _____

Write the percent as a decimal.

13) 4% 13) _____

14) 2.8% 14) _____

Write the decimal as a percent.

15) 4.3 15) _____

Write the percent as a fraction or mixed number in simplest form.

16) 9.5% 16) _____

Write the fraction or mixed number as a percent.

17) $\frac{7}{16}$ 17) _____

18) $\frac{5}{9}$ Round to the nearest hundredth percent. 18) _____

- A) 5.556% B) 55.56% C) 55.6% D) 5.56%

19) Approximately 25.9% of all students at a city college commute to school. Write this percent as a fraction or mixed number in simplest form. 19) _____

Using the method taught in your class, translate the question into an equation or proportion. Do not solve.

20) What number is 49% of 60? 20) _____

21) 64% of what number is 4? 21) _____

22) 2.7 is what percent of 27? 22) _____

Fill in the blank with one of the words or phrases listed below.

| | | | |
|----------------|-----------|---------------|-----------------|
| Percent | of | amount | 100% |
| Base | is | 0.01 | $\frac{1}{100}$ |

23) In a mathematical statement, _____ means "equals." 23) _____

24) _____ means "per hundred." 24) _____

25) The number 1 written as a percent is _____. 25) _____