

Worksheet 4.5

Solving Percent Problems Using Proportions.

Translate to a proportion. Do not solve. See examples on pages 235-237 in text.

1. 38% of 77 is what?

A) $\frac{38}{100} = \frac{77}{b}$ B) $\frac{38}{100} = \frac{a}{77}$ C) $\frac{38}{77} = \frac{a}{100}$ D) $\frac{77}{100} = \frac{a}{38}$

2. 37 is what percent of 61?

A) $\frac{37}{100} = \frac{61}{b}$ B) $\frac{37}{100} = \frac{a}{61}$ C) $\frac{N}{100} = \frac{37}{61}$ D) $\frac{N}{100} = \frac{61}{37}$

3. 73 is 55% of what?

A) $\frac{55}{100} = \frac{a}{73}$ B) $\frac{73}{100} = \frac{55}{b}$ C) $\frac{55}{100} = \frac{73}{b}$ D) $\frac{N}{100} = \frac{73}{55}$

Solve. Round your answer to two decimal places if necessary. See examples on pages 237-238 in text.

4. 85% of 290 yards

A) 246.5 yards B) 24.65 yards C) 2465 yards D) 24,650 yards

5. 5% of what is \$18

A) \$18 B) \$180 C) \$90 D) \$360

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Solve. Round your answer to the nearest unit. See examples on pages 237-238 in text.

6. 19 acres is 0.76% of what number of acres?

A) 2500 B) 400 C) 4 D) 25,000

7. 37% of what number of seconds is 66 seconds?

A) 1780 B) 100 C) 1 D) 178

Solve. Round answer to the nearest tenth of a percent. See examples on page 238 in text.

8. What percent of 3397 customers is 19 customers?

A) 15.6% B) 0.6% C) 17,878.9% D) 5.6%

Simplify. See examples on pages 89-91 in text.

9. $\frac{14}{21}$

A) $\frac{14}{21}$ B) $\frac{2}{3}$ C) $\frac{21}{14}$ D) $\frac{7}{3}$

Simplify. See examples on page 128 in text.

10. $\frac{4}{5} \cdot \frac{4}{5} + \frac{1}{4} \cdot \frac{1}{4}$

A) $\frac{281}{16}$ B) $\frac{281}{200}$ C) $\frac{21}{20}$ D) $\frac{281}{400}$