

% Practice – 2 Ways

7th Grade Math

NAME

key

On this practice worksheet, you will be expected to solve each of the following problems using each of the two strategies learned today:

Writing an Equation	Writing a Proportion (with Picture)
<p>1. What is 8% of 64?</p> $x = .08 \cdot 64$ $x = 5.12$	<p>1. What is 8% of 64?</p> $\frac{x}{64} = \frac{.08}{1}$
<p>2. 5 is 30% of what number?</p> $5 = .3 \cdot x$ $x = 16.\bar{6}$	<p>2. 5 is 30% of what number?</p> $\frac{x}{5} = \frac{1}{.3}$
<p>3. 8 is what percent of 20?</p> $8 = x \cdot 20$ $x = .4$ $x = 40\%$	<p>3. 8 is what percent of 20?</p> $\frac{x}{1} = \frac{8}{20}$
<p>4. 14% of 55 is what?</p> $.14 \cdot 55 = x$ $x = 7.7$	<p>4. 14% of 55 is what?</p> $\frac{x}{55} = \frac{.14}{1}$

5. 16 is what percent of 18?

$$16 = x \cdot 18$$

$$x = \bar{8}$$

$$x = 88.\bar{8}\%$$

5. 16 is what percent of 18?

$$\frac{x}{1} = \frac{16}{18}$$

6. 10 is 75% of what number?

$$10 = .75 \cdot x$$

$$x = 13\frac{1}{3}$$

6. 10 is 75% of what number?

$$\frac{x}{10} = \frac{1}{.75}$$

7. 95% of 88 is what?

$$.95 \cdot 88 = x$$

$$x = 83.6$$

7. 95% of 88 is what?

$$\frac{x}{88} = \frac{.95}{1}$$

8. What is 3% of 12?

$$x = .03 \cdot 12$$

$$x = .36$$

8. What is 3% of 12?

$$\frac{x}{12} = \frac{.03}{1}$$

9. 8 is 85% of what?

$$8 = .85 \cdot x$$

$$x \approx 9.41$$

9. 8 is 85% of what?

$$\frac{x}{8} = \frac{1}{.85}$$

10. 22 is what percent of 25?

$$22 = x \cdot 25$$

$$x = .88$$

$$x = 88\%$$

10. 22 is what percent of 25?

$$\frac{x}{1} = \frac{22}{25}$$