

Percent Problems

1. What is 58% of 800?

2. 18 is 2.4 % of what?

3. 900 is what percent of 500?

EXAMPLE

Write an equation for each problem and solve.

a) You spent \$748 of your monthly income of \$3400 for rent. What percent of your monthly income is your monthly rent?

b) The price of soft drinks has gone up 2.5% in the last year. How much would you expect to pay for the 2-liter bottle which was formerly priced at \$1.59?

Ratios and Unit prices

Ratio a:b <u>a</u> b

Examples of ratios: 36 inches to 5 ft.

Examples of unit prices: 64 ounces of juice for \$1.29

① EXAMPLE:

Which is a better buy? 10.5 oz package of cookies for \$1.79 or 16 oz package of cookies for \$2.39?

Proportions

A proportion is a statement that equates two ratios.

$$\frac{a}{b} = \frac{c}{d}$$

② EXAMPLES: Solve for x.

a)
$$\frac{x}{36} = \frac{6}{7}$$

b)
$$\frac{x-3}{3} = \frac{x+8}{12}$$

c) Given these similar triangles, find the value of z.

