

Name: Class:

Find the total given a part and a percent



Solve the following expressions.

1. 50% of _____ = 50

3. 60% of _____ = 30 inches.

2. 90% of _____ = 270

4. 100% of _____ = \$ 200



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Find the total given a part and a percent



Solve the following expressions.

1. 50% of _____ = 50

use the formula.

$$\frac{\text{part}}{\text{total}} = \frac{\text{percent}}{100}$$

The percent is 50.

The part is 50.

Let x represent the total.

Now substitute these value in the equation,

$$\frac{50}{x} = \frac{50}{100}$$

$$50 \times 100 = (x) (50)$$

$$x = (50 \times 100) \div 50 = 100$$

$$x = 100.$$

So, 50% of 100 = 50

2. 90% of _____ = 270

use the formula.

$$\frac{\text{part}}{\text{total}} = \frac{\text{percent}}{100}$$

The percent is 90.

The part is 270.

Let x represent the total.

Now substitute these value in the equation,

$$\frac{270}{x} = \frac{90}{100}$$

$$270 \times 100 = (x) (90)$$

$$x = (270 \times 100) \div 90 = 300$$

$$x = 300$$

So, 90% of 300 = 270

3. 60% of _____ = 30 inches.

use the formula.

$$\frac{\text{part}}{\text{total}} = \frac{\text{percent}}{100}$$

The percent is 60.

The part is 30.

Let x represent the total.

Now substitute these value in the equation,

$$\frac{30}{x} = \frac{60}{100}$$

$$30 \times 100 = (x) (60).$$

$$x = (30 \times 100) \div 60 = 50.$$

$$x = 50.$$

So, 60% of 50 inches = 30 inches

4. 100% of _____ = \$ 200

use the formula.

$$\frac{\text{part}}{\text{total}} = \frac{\text{percent}}{100}$$

The percent is 100

The part is 200

Let x represent the total

Now substitute these value in the equation,

$$\frac{200}{x} = \frac{100}{100}$$

$$200 \times 100 = (x) (100)$$

$$x = (200 \times 100) \div 100 = 200$$

$$x = 200$$

So, 100% of \$ 200 = \$ 200

