

Percent Problems

What is the percent proportion?

↓ Notes ↓

$$\frac{\text{is}}{\text{of}} = \frac{\%}{100} \quad \frac{\text{part}}{\text{whole}} = \frac{\%}{100}$$

move to reveal

Percent Proportion

What does the percent proportion mean?

Notes ↓

In a percent problem, the number before the percent sign replaces %, the total number replaces *of*, and the number that is the percentage of the total replaces *is*

Example

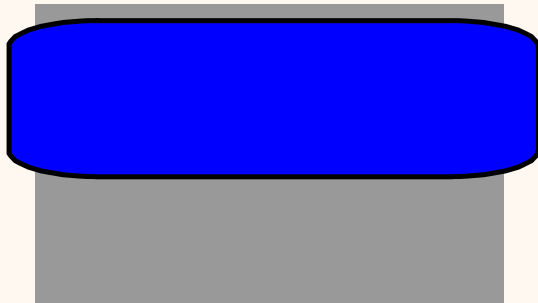
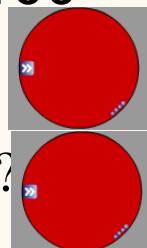
The frozen-yogurt stand in the mall sells 420 frozen-yogurt cups per day, on average. Forty-five percent of the frozen-yogurt cups are sold to teenagers. On average, how many frozen-yogurt cups are sold to teenagers each day?

↓ Notes ↓

$$\frac{\text{is}}{\text{of}} = \frac{\%}{100}$$

$$\frac{\text{part}}{\text{whole}} = \frac{\%}{100}$$

1. Which number replaces % ?
2. Which number replaces of/whole ?



Percent of a Number

How do I find percent of a number???

↓ Notes ↓



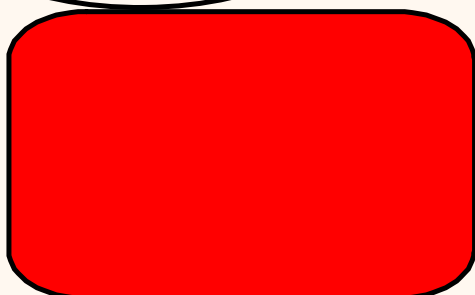
67% of 90

Place the above values into the percent proportion.

↓ Notes ↓

$$\frac{\text{is}}{\text{of}} = \frac{\%}{100}$$

$$\frac{\text{part}}{\text{whole}} = \frac{\%}{100}$$



Solve for x

Use decimal equivalents to find
% of a number

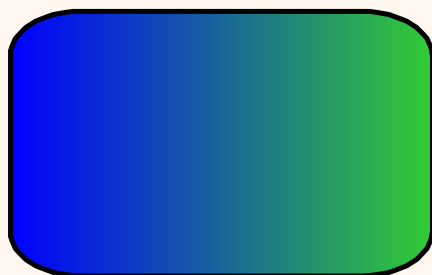
Change the % to a decimal and multiply.

↓ Notes ↓

8% of 50

What *is* 8% of 50?

↓ Notes ↓

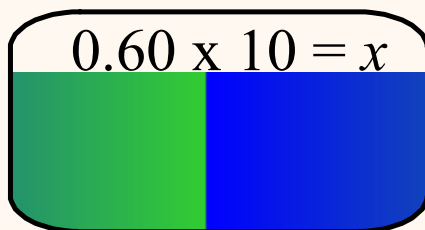


change the % to a decimal and multiply

You can also use decimal equivalents to find other missing values

60% of 10 is what number??

↓ Notes ↓

$$0.60 \times 10 = x$$


Don't forget to change the % to a decimal.