

Friendly Notes

Percent

A **percentage** is a way of expressing a fraction with a denominator of 100.

A percentage is indicated by the symbol, % (percent).

1. Write 13 out of 100 as a percentage.

$$13 \text{ out of } 100 = 13\%$$

13% is another way of writing $\frac{13}{100}$ or 0.13.

We read 13% as 13 percent.



2. Express 15% as a fraction in its simplest form.

$$15\% = \frac{15}{100} = \frac{3}{20}$$

3. Express 88% as a decimal.

$$88\% = \frac{88}{100} = 0.88$$

4. Express 0.45 as a percentage.

$$0.45 = \frac{45}{100} = 45\%$$

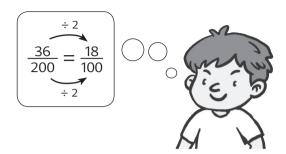
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Express $\frac{36}{200}$ as a percentage.

Method 1:

$$\frac{36}{200} = \frac{18}{100}$$
$$= 18\%$$



Method 2:

$$\frac{36}{200} = \frac{36}{200} \times 100\%$$
$$= 18\%$$

Percentage of a Quantity

There are 45 children in a class. 40% of the children are girls. How many boys are there in the class?

$$100\% - 40\% = 60\%$$

60% of the children are boys.

60% of
$$45 = \frac{60}{100} \times 45$$
$$= 27$$

There are 27 boys in the class.

