PERCENTS

PERCENT

Percent means per one hundred with symbol %. A part-to-whole (100) ratio represented as a fraction with denominator 100.

EXAMPLE: Write 22% as a fraction in simplest form:

SOLUTION:

$22\% = 22$ out of $100 = \dfrac{22}{100} = \dfrac{11}{50}$

A model is presented showing that 22% is 22 units of 100.
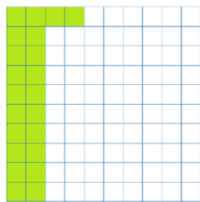
VERIFICATION:
Using a rule of three:

$1 \Rightarrow 100\%$

$x \Leftarrow 22\%$

$x = \dfrac{(22\%)(1)}{100\%}$

$x = \dfrac{22}{100}$

Simplifying:

$\dfrac{22}{100} = \dfrac{(2)(11)}{(2)(2)(5)(5)} = \dfrac{11}{50}$

Performing the division of the fraction :

$$50\overline{)11.0} = .22$$
$$-100$$
$$100$$
$$-100$$
$$0$$

CONCLUSION:

Percent   Fraction

$22\% = \dfrac{22}{100}$

$22\% = \dfrac{11}{50}$ Simplest form

$22\% = 0.22$

Decimal