PERCENT

def

PERCENT - A NUMBER OUT OF 100

20% MEANS 20 OUT OF 100 = $\frac{20}{100}$

↑ LESS THAN WHOLE

3% MEANS 3 OUT OF 100 = $\frac{3}{100}$

110% MEANS 110 OUT OF 100 = $\frac{110}{100}$

↑ MORE THAN 1 WHOLE

% → FRACTION

$27\% = \frac{27}{100}$

FRACTION → %

RATIO TABLE METHOD

$\frac{2}{5} \overset{\times 20}{=} \frac{40}{100} = 40\%$

DIVISION METHOD

$\frac{2}{5} \leftarrow \div$

$5\overline{)2.0}$ → $5\overline{)2.0}$, -20, 0 → $.4$

$\frac{4}{10} \overset{\times 10}{=} \frac{40}{100} = 40\%$

% ⟷ DECIMAL

$27\% = \frac{27}{100} = .27$

[DECIMAL MOVES 2 PLACES LEFT]

$120\% = 1.20$ OR 1.2

DECIMAL → %

$.56 = \frac{56}{100} = 56\%$

[DECIMAL MOVES 2 PLACES RIGHT]

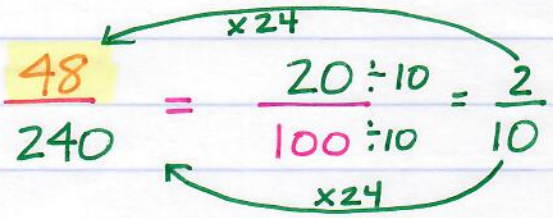
$1.76 = 176\%$

USING PROPORTIONS TO SOLVE % PROBLEMS

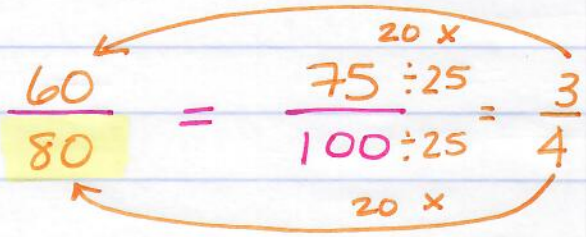
USE TO SET UP AND SOLVE

(is) PART / (of) WHOLE = % / 100 — / — = / 100

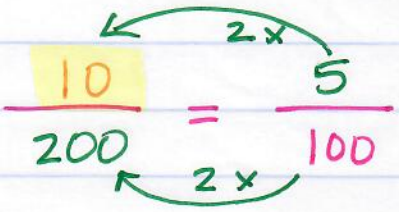
1) WHAT IS 20% OF 240?



2) 60 IS 75% OF WHAT NUMBER?



3) WHAT IS 5% OF 200?



4) 8 IS 40% OF WHAT NUMBER?