

Ratio and Proportion

Ratio -> a comparison of like quantities with the same units.

Mrs. McGuinness has a skull circumference of 54 cm. Her wrist circumference is 15 cm.
Written as a ratio;

head : skull

54: 15

write in lowest terms (find a number that goes into both evenly)

18:5

Ratios can also be written as fractions.

$$\frac{54}{15} = \frac{18}{5}$$

Proportion ----> a statement of equality between ratios.

54:15 = 18:5

or

$$\frac{54}{15} = \frac{18}{5}$$

Equivalent ratios ----> the same ratio.

Ms. Nadon also has the same skull to wrist ratio as Mrs. McGuinness.

54:15 and 18:5

Scale ----> A scale diagram is a drawing that is an enlargement of a small object, or a reduction of a large object.

The scale is $\frac{\text{diagram measurement}}{\text{actual measurement}}$

A ratio of distances on a map compared to actual distances on the Earth.

A ratio of the size of a hot wheels car compared to the actual size of the car.