

Math Practice Sheets

Ratio, Percent, and Proportion

Student Name



Examples

Practice Questions

Extra Challenge Unit

Example

Consider the following.

- Stella's weight is 25 kg and her father's weight is 75 kg. How many times her father's weight is Stella's weight? It is 3 times.

In the above example, we compared the two quantities in terms of 'how many times'. This comparison is known as the Ratio.

We denote ratio with the symbol ':':

i.e. The ratio of the father's weight to Stella's weight = $\frac{75}{25} = \frac{3}{1} = 3:1$

We cannot take the ratio of the two quantities of different kind. To take the ratio between two similar quantities their units must be the same.

i.e. The ratio of 2 m to 80 cm is $\frac{200cm}{80cm} = \frac{200}{80} = \frac{5}{2} = 5:2$

Exercise

1. Find the ratio of each of the following in simplest form.

a) 6 to 8

b) 81 to 108

c) 98 to 63

d) 55 to 66

e) 300 to 450

f) 49 to 245

g) 33 km to 121 km

h) 30 m to 45 m

i) 80 cm to 60 cm