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**Junior Cert**

**Free Notes**

**Conversions**

## Conversions

First let's take a look at some simple conversions.

1kg=1000grams

1litre=1000ml

1metre=100centimetres

1km=1000metres=100000centimetres

1minute=60seconds

1hour=60minute=3600seconds

### 1.1

**Express 45 centimetres as a fraction of 15 metres and write your answer in its simplest form.**

Express everything in centimetres

15metres= 1500centimetres

$$\frac{45}{1500} = \frac{3}{100} = 0.03$$

### 1.2

**Given that the speed of sound in air is 330 metres per second, express this speed in km/hr**

Change metres to kilometres and then seconds to hours

$$\frac{330}{1000} = 0.33 \text{ kilometres per second}$$

$$0.33 \times 60 \times 60 = 1188 \text{ km/hr}$$

### 1.3

**Express 320 grams as a fraction of 8kg**

$$\frac{320}{8000} = \frac{1}{25} = 0.04$$

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