DECIMALS

'Using decimals in measurements'

Whenever we have to measure something, we use three basic units of measurement:

- meter for length   - gram for weight   - litre for capacity

we can multiply the basic units to make bigger units and divide to make smaller units.

If we **multiply by 1000** we get:	If we **divide by 1000** we get:
1 m × 1000 = 1000 m = 1 km	1 m ÷ 1000 = 0.001 m = 1 mm
1 g × 1000 = 1000 g = 1 kg	1 g ÷ 1000 = 0.001 g = 1 mg
1 l × 1000 = 1000 l = 1 kl	1 l ÷ 1000 = 0.001 l = 1 ml

when our units of measurements are grouped in thousandths, we use decimals to express them. For example:

1) 2105 m = 2.105 km

2) 3 g = 0.003 kg

3) 342 l = 0.342 kl

Similarly,

1) 9 kg 545 g = 9.545 kg = $9 \frac{545}{1000}$ kg

2) 2 km 700 m = 2.700 km = $2 \frac{700}{1000}$ km

3) 13 l 36 ml = 13.036 l = $13 \frac{36}{1000}$ l