

CONVERTING MEASUREMENT

L.O:

1) convert the measurement correctly.

S2S:

1) Memorise the conversion units:

$$\underline{1\text{ km} = 1000\text{ m}} \quad \underline{1\text{ kg} = 1000\text{ g}} \quad \underline{1\text{ l} = 1000\text{ ml}}$$

2) Look at the correct conversion unit.

3) Convert correctly.

LOOK AT THE PICTURE AND READ FIRST AS YOUR NOTES.



Let's Learn!

Converting Measurements

1 $1\text{ km} = 1000\text{ m}$

$$1\text{ kg} = 1000\text{ g}$$

$$1\text{ l} = 1000\text{ ml}$$

We use "kilo-" for large units.
"kilo-" means thousand.
So, **1 kilometre = 1000 metres**
and **1 kilogram = 1000 grams**.

We use "milli-" for small units.
1 litre = 1000 millilitres.



2 Express the following measurements in the given units.

a $7\text{ kg} = 7000\text{ g}$

b $9\text{ km} = 9000\text{ m}$

c $10\text{ km} = 10\,000\text{ m}$

d $35\text{ l} = 35\,000\text{ ml}$

e $4000\text{ ml} = 4\text{ l}$

f $6000\text{ g} = 6\text{ kg}$

g $20\,000\text{ ml} = 20\text{ l}$

h $47\,000\text{ m} = 47\text{ km}$

3 The mass of a rock is 3 kg 450 g. Express the mass of the rock in grams.

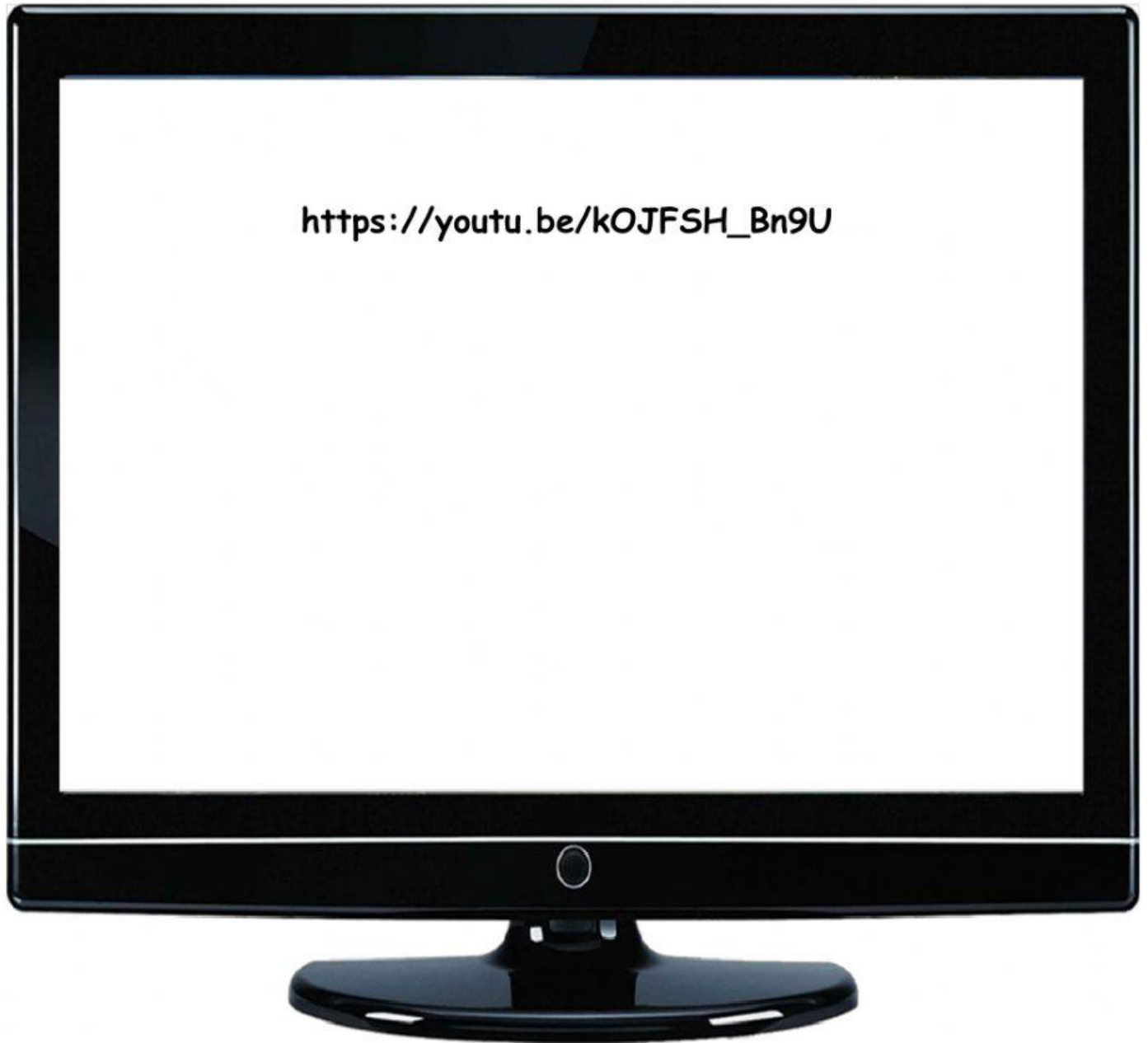
$$3\text{ kg } 450\text{ g} = 3450\text{ g}$$

The mass of the rock is 3450 g.

$$3\text{ kg } 450\text{ g} \begin{cases} 3000\text{ g} \\ 450\text{ g} \end{cases}$$

You can also watch the video by clicking the link:

https://youtu.be/kOJFSH_Bn9U



Exercise:

1) Tick the boxes with the correct conversion:

- (a) $3 \ell = 3000 \text{ ml}$ $3 \ell = 300 \text{ ml}$ $3 \ell = 30\,000 \text{ ml}$
- (b) $80 \text{ m} = 8 \text{ km}$ $8000 \text{ m} = 8 \text{ km}$ $800 \text{ m} = 8 \text{ km}$
- (c) $2540 \text{ m} = 2 \text{ km } 540 \text{ m}$ $2540 \text{ m} = 2 \text{ km } 54 \text{ m}$
- (d) $6019 \text{ m} = 60 \text{ km } 19 \text{ m}$ $6019 \text{ m} = 6 \text{ km } 19 \text{ m}$
- (e) $10 \ell \text{ } 175 \text{ ml} = 10\,175 \text{ ml}$ $10 \ell \text{ } 175 \text{ ml} = 1175 \text{ ml}$
- (f) $5 \text{ kg } 88 \text{ g} = 5880 \text{ g}$ $5 \text{ kg } 88 \text{ g} = 5088 \text{ g}$

2) Complete the following:

- (a) $6 \ell \text{ } 584 \text{ ml} = \underline{\hspace{2cm}} \text{ ml}$
- (b) $16 \text{ km } 84 \text{ m} = \underline{\hspace{2cm}} \text{ m}$
- (c) $4075 \text{ ml} = \underline{\hspace{2cm}} \ell \underline{\hspace{2cm}} \text{ ml}$
- (d) $3002 \text{ g} = \underline{\hspace{2cm}} \text{ kg } \underline{\hspace{2cm}} \text{ g}$
- (e) $11 \text{ km } 512 \text{ m} = \underline{\hspace{2cm}} \text{ m}$
- (f) $1 \text{ kg } 5 \text{ g} = \underline{\hspace{2cm}} \text{ g}$