

## Functional Skills Maths Level 2 | Convert Between Metric and Imperial Measurements

1. Aaron needs to buy a new fridge.

The fridge must fit in a space in his kitchen.

He has taken the following measurements:

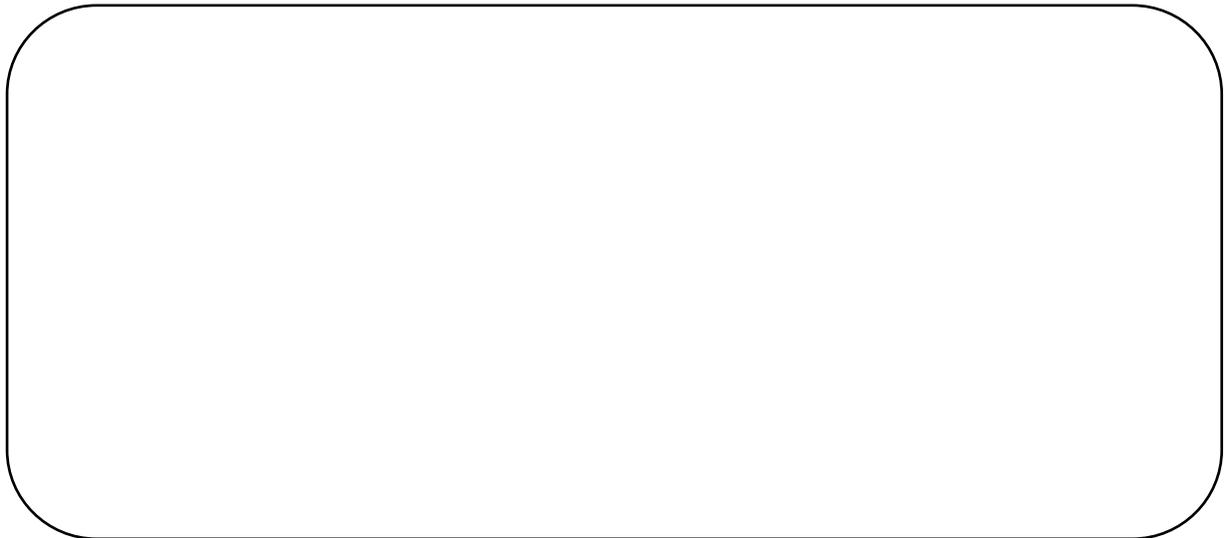
width 19 inches, depth 22 inches and height 36 inches

He sees a fridge with the following measurements:

width 47.2 centimetres, depth 44.6 centimetres and height 84.2 centimetres

1 inch = 2.54cm

Will the fridge fit in the space?

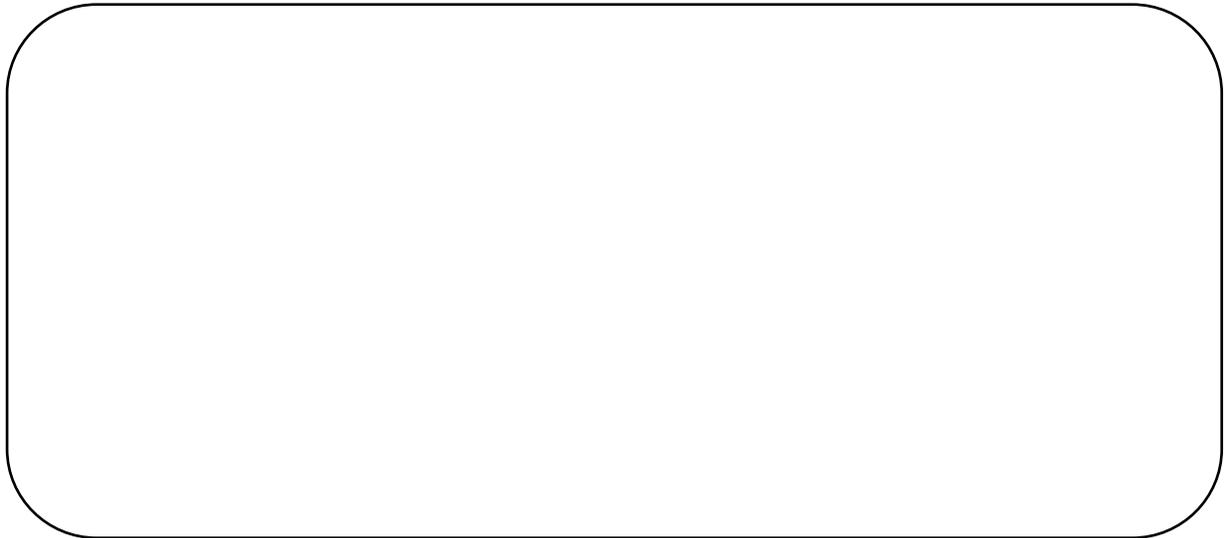


2. Melinda wants to put a fence around her garden.  
She needs to buy 78 feet of fencing.

Melinda buys fencing measured in metres.

Melinda uses 1 metre is 3.28 feet.

Work out how many metres of fencing Melinda needs.



3. Vin is a lorry driver.  
He is planning his route.

On the planned route there is a low bridge.  
The maximum height of a lorry allowed under the bridge is 13 feet.

Vin knows the lorry is 3.9 m high.

Josh uses 1 foot = 0.3048 m.

Will the lorry be allowed under the bridge?  
Show why you think this.



4. Shep wants to bake some cupcakes.

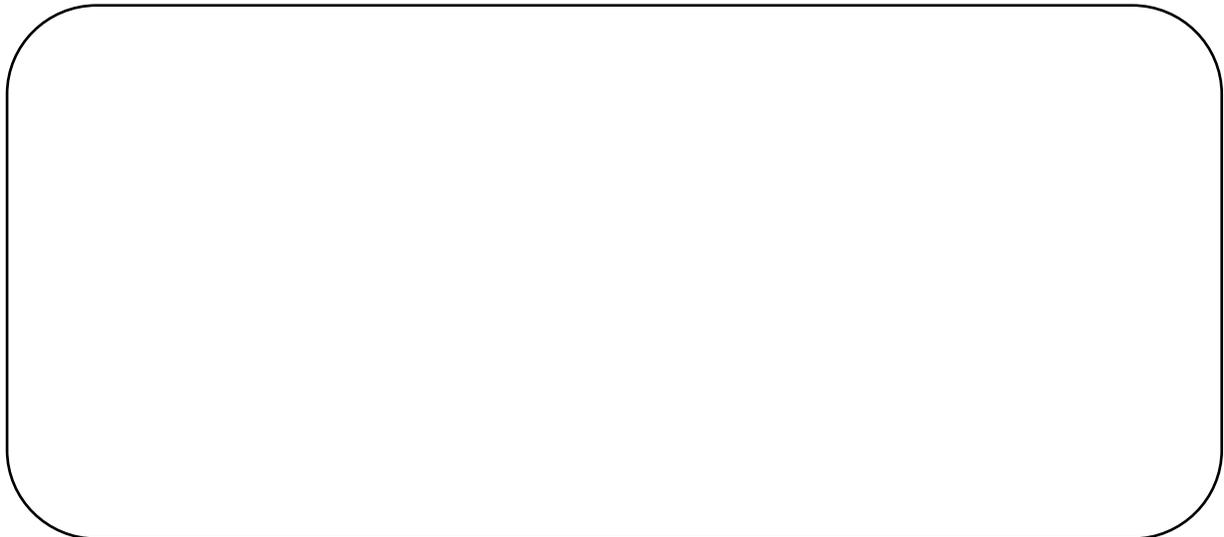
He has the following recipe:

Cupcakes makes 12	
2 cups of flour	1 egg
3 tbsp butter	10.5 fl oz milk
$\frac{3}{4}$ cup sugar	3 apples
pinch of cinnamon	

1 fl oz = 28.413ml

Shep wants to make 24 cupcakes.

How many millilitres of milk will he need?



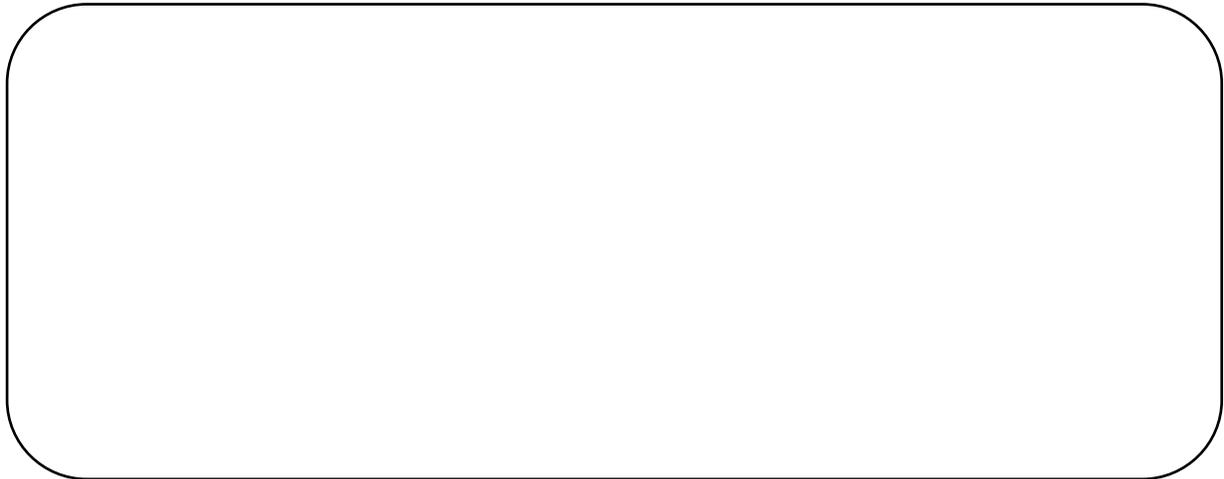
5. Laypin is training for a fun run.

She runs on average 3.7 miles a day for 4 weeks.

She knows 1 mile = 1.6 kilometres.

She thinks she will run at least 160 kilometres in this time.

Is she correct?



6. Ian is a taxi driver.

He wants to work out the total cost of the petrol he will use for travel next week.

He knows

- he will drive a total of 520 miles
- his car uses 1 gallon of petrol per 28 miles
- petrol costs 134.9 pence per litre
- 1 gallon = 4.55 litres.

He thinks the petrol he will use for travel next week will cost less than £120.

Is Ian correct?



## ANSWERS

1.

$$19 \times 2.54 = 48.26$$

$$22 \times 2.54 = 55.88$$

$$36 \times 2.54 = 91.44$$

Yes, it would fit.

2. 23.78m

$$3. 3.9 \div 0.3048 \text{ OR } 13.9 \times 0.3048$$

Yes AND 12.8m

$$4. 10.5 \times 28.413 \times 2 = 596.673\text{ml}$$

$$5. 3.7 \times 1.6 \times 7 \times 4 = 165.76 \text{ km AND Yes}$$

$$6. (520 \div 28) \times 139.9 \times 4.55 = 11399.05$$

$$11399.05 \div 100 = \text{£}113.9905 = \text{£}113.99 \text{ OR } \text{£}114 \text{ AND Yes}$$