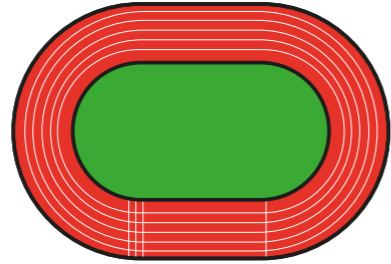# Calculate with metric measures

1 An Olympic racetrack is 400 metres all the way around.

a) Jack runs 2 laps.

How far does Jack run?

800 m

b) Rosie runs 3 laps.

How far does Rosie run?

Write your answer in metres and kilometres.

1,200 m   1·2 km

c) Amir runs 4 km.

How many laps does Amir run?

10

d) Eva runs 10 km.

How many laps does Eva run?

25

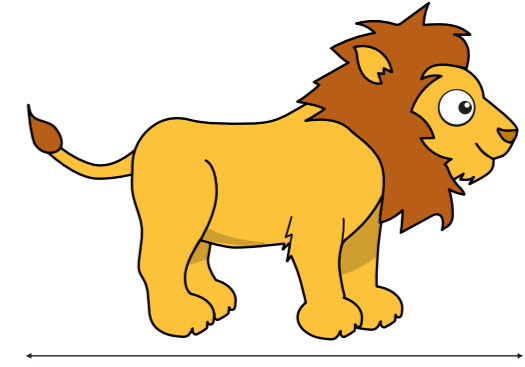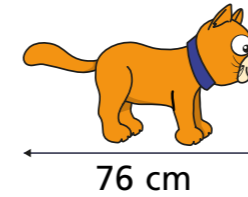**2** Mo has 2 litres of orange juice.

He drinks 200 ml.

He then shares the rest equally between 6 glasses.

How much orange juice is poured into each glass?

300 mL

3 A cat measures 76 cm from its nose to its tail.

76 cm

The length of a lion is 3 times as long as a cat.

How long is a lion?

Give your answer in **metres**.

2·28 m

4 The length of a swimming pool is 25 m.

Rosie swims 600 m.

Tommy swims 1 km.

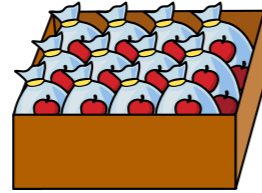How many more lengths did Tommy swim than Rosie?

16

Compare methods with a partner.

5 A bag of apples weighs 350 g.

A box can hold 12 bags of apples.

What would be the mass of 20 boxes of apples?

Give your answer in **kilograms**.

84 kg

6 Dani is collecting rainwater in a 1-litre jug.

On Monday, she collects 220 ml of water.

On Tuesday, she collects a quarter of a litre of water.

At the end of Wednesday, Dani sees she only needs another 0.1 litres until her jug is full.

How much water did Dani collect on Wednesday?

430 ml

7 Jack wants to find out the mass of his suitcase.

Jack weighs 34.5 kg.

He steps onto the scales and it shows 47 kg and 200 g.

How heavy is his suitcase?

12.7 kg

8 A bag contains 200 sweets.

Each sweet weighs 1.5 g.

The bag itself weighs 16 g.

Huan has some bags of sweets. The total mass is 1.264 kg.

How many bags of sweets does Huan have?

4

9 Here is a recipe for 8 cupcakes.

a) Complete the recipe for 24 cupcakes.

Cupcakes (makes 8)

100 g butter
100 g sugar
2 eggs
1 tsp vanilla extract
120 g flour
4 tbsp milk

Cupcakes (makes 24)

300g	butter
300g	sugar
6	eggs
3 tsp	vanilla extract
360g	flour
12 tbsp	milk

b) Mo has half a kilogram of butter and plenty of the other ingredients.

What is the greatest number of cupcakes he can make using this recipe?

40