



Task: Units of measurement

Use a **ruler**, **weighing scales**, a measuring jug/cups to find the answers to these questions. Some of the answers will be printed on the products. If you don't have any scales, try to estimate the weight. If you don't have a measuring jug, use a milk plastic carton, (which will hold a 2 and half litres), and try to work it out)

1	How tall are you in m and cm?	
2	How many millilitres are there in your bottle of shampoo? (ml)	
3	How much does your box of cereal weigh?(g)	
4	How tall is the tallest person that lives in your house? Measure in m/cm	
5	How high up do you sleep - measure in m/cm	
6	Find the biggest potato in the bag. How much does it weigh?(g)	
7	Measure the distance from your seat in the lounge to the television. (Are you in danger of getting square eyes!?) (m/cm)	
8	How much does your breakfast cup/glass contain? (ml)	
9	How many millilitres are there in your bottle of ketchup?	
10	If a soup/cereal bowl was full, how many ml of liquid could it hold?	

Convert lengths



In this activity you will convert between metric
units of length:

kilometres, metres, centimetres, and millimetres.

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

$$1 \text{ m} = 100 \text{ cm}$$

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

$$1 \text{ cm} = 10 \text{ mm}$$

3 cm = _____ mm	12 cm = _____ mm
285 cm = _____ mm	6 m = _____ cm
2.4 m = _____ cm	0.7 m = _____ cm
8 km = _____ m	0.8 km = _____ m
0.08 km = _____ m	40 mm = _____ cm
250 mm = _____ cm	500 cm = _____ m
750 cm = _____ m	20 cm = _____ m
3500 m = _____ km	300 m = _____ km

Weight (mass)

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

$$500 \text{ g} = 0.5 \text{ kg}$$

$$100 \text{ g} = 0.1 \text{ kg}$$

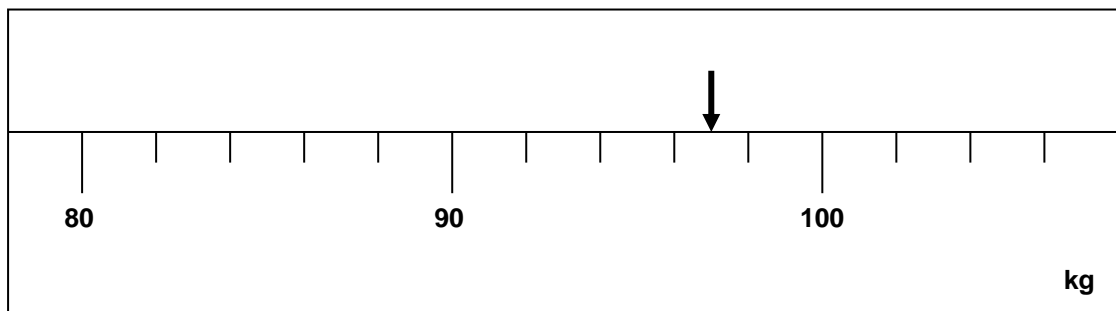
Capacity (Volume)

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

$$500 \text{ ml} = 0.5 \text{ litre}$$



- 1 A weight-watcher weighs herself.
The diagram shows the reading on the scales.



What weight is the weight watcher?

- A 81 kg
- B 97 kg
- C 87 kg
- D 98 Kg

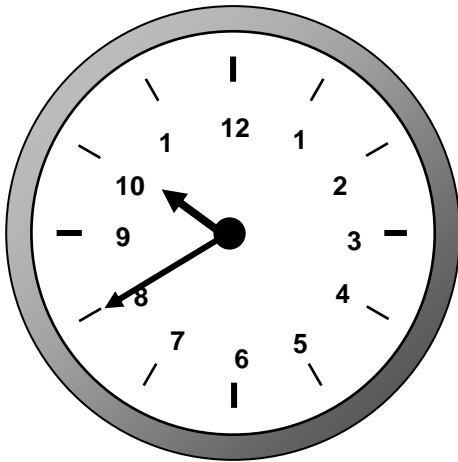
- 2 The average distance a group of employees travel to work is estimated.
Distance is measured in

- A kilograms
- B kilometres
- C hours
- D litres

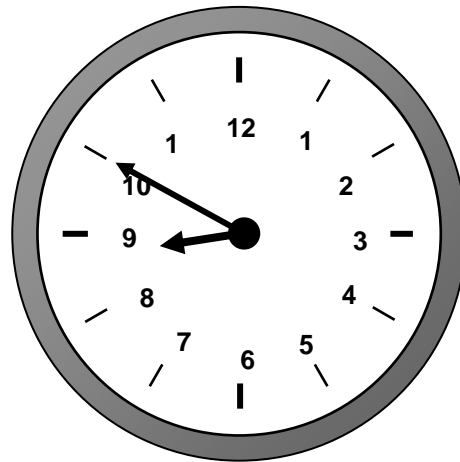


- 3 A darts competition starts at 6:25pm.
The competition lasts for three and a quarter hours.

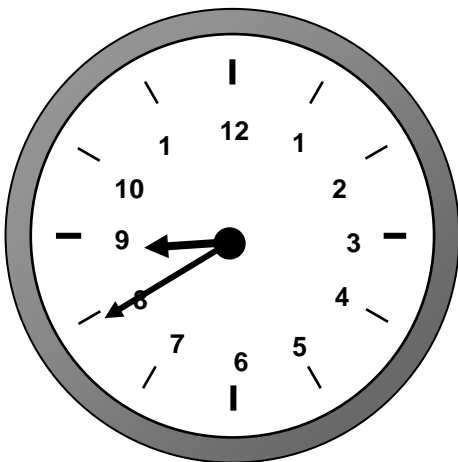
Watch a



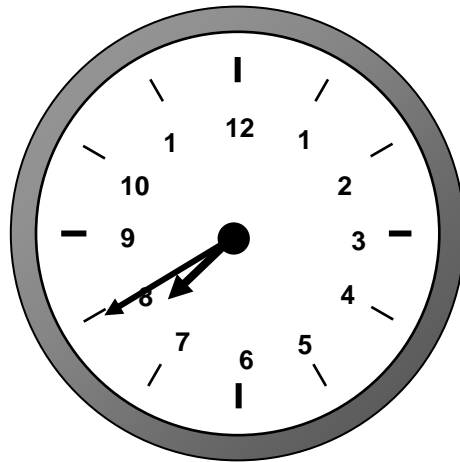
Watch b



Watch c



Watch d

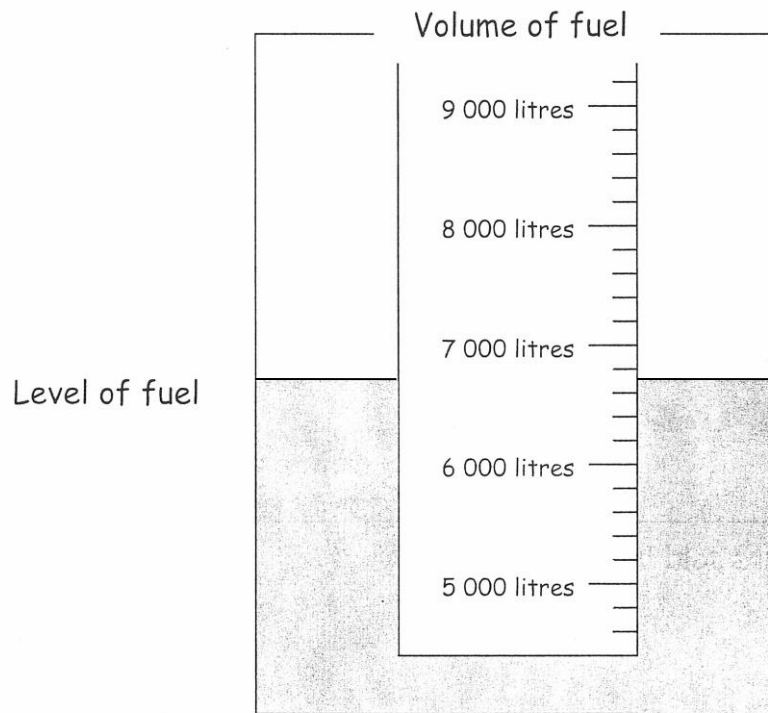


Which watch face displays the time that the competition ends?

- A Watch a
- B Watch b
- C Watch c
- D Watch d



- 4 There is a fuel tank in a car supermarket.
The diagram shows the reading on the scale.



- 5 How much fuel is in the tank?

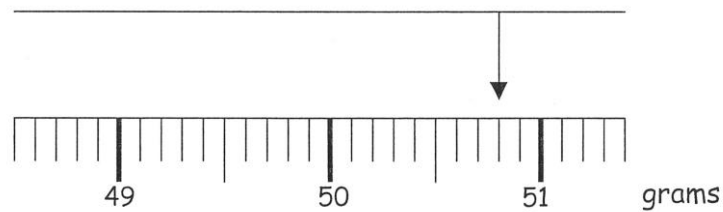
- A 6 350 litres
- B 6 700 litres
- C 7 150 litres
- D 7 300 litres

- 6 A factory manager's office measures 6 metres by 4 metres.
The builder works out the floor area as 24 units.
The unit for the floor area is

- A m
- B m^2
- C m^3
- D cm



- 7 The counter clerk in an office checks the weight of a letter.

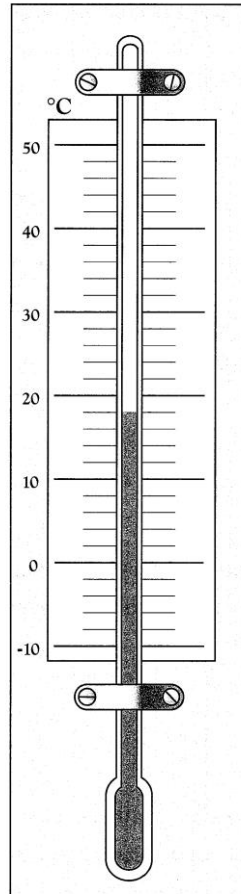


The reading on the scale is

- A 50.4g
B 50.7g
C 50.8g
D 51.2g
- 8 A cinema shows two films one after the other in a special "double bill".
This takes 3 hours.
One of the films lasts for 1 hour 50 minutes.
How long does the other film last?
- A 1hr 10min
B 1hr 50min
C 2hr 10min
D 2hr 50min



- 9 The diagram shows the reading on the thermometer one day last summer.
What is the reading?



- A 14°C
- B 18°C
- C 21°C
- D 22°C

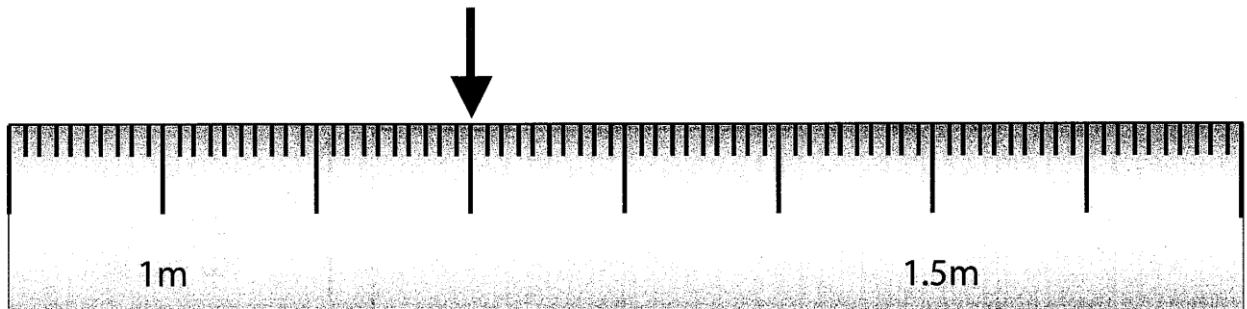
- 10 A janitor is preparing a tank of cleaning fluid.
Disinfectant is added in the ratio of 3 grams of disinfectant to every 2 litres of water in a tank.

How much disinfectant is added to 300 litres of water?

- A 100g
- B 200g
- C 450g
- D 600g



- 11 A dressmaker measures a length of fabric.
The diagram shows the reading on the tape measure.

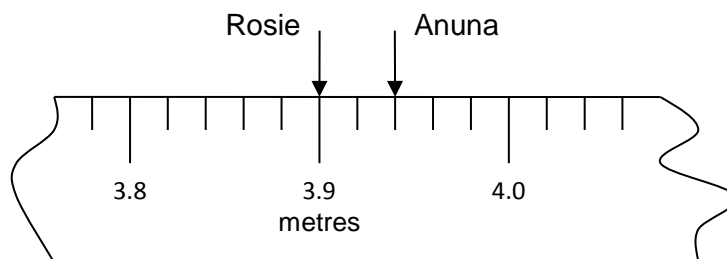


What is the reading on the tape measure?

- A 1 metre 2 centimetres
- B 1 metre 4 centimetres
- C 1 metre 20 centimetres
- D 1 metre 40 centimetres

- 12 During a set of athletic trials, Rosie and Anuna compete in the long jump.

The diagram shows the length of each girl's jump.



Rosie's jump was 3.9 metres.

How long was Anuna's jump?

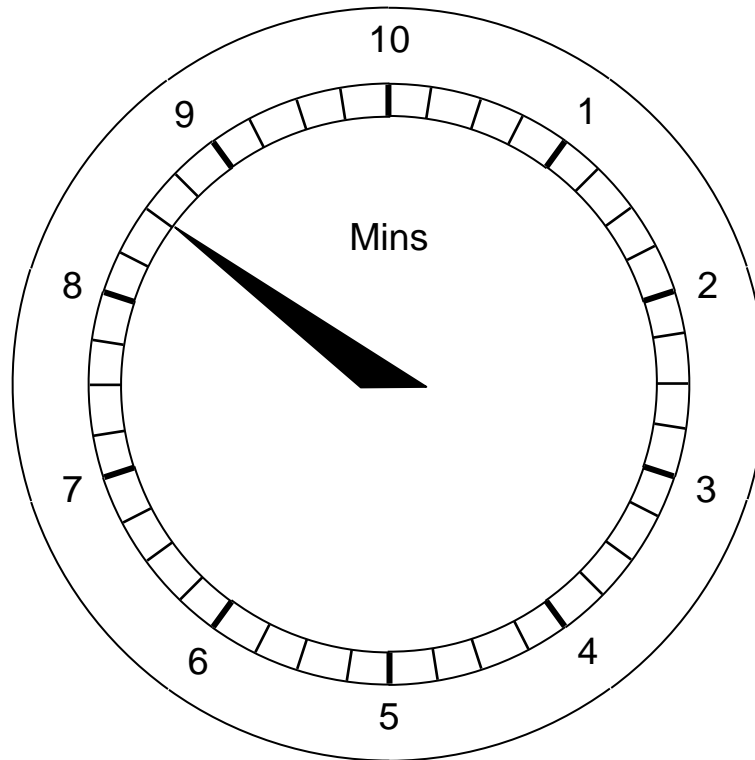
- A 3.92m
- B 3.94m
- C 3.95m
- D 3.97m

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13 A customer buys a microwave oven and is given a free ready to cook meal.

A diagram on the packet shows how long the meal takes to cook.



How long does the ready meal take to cook?

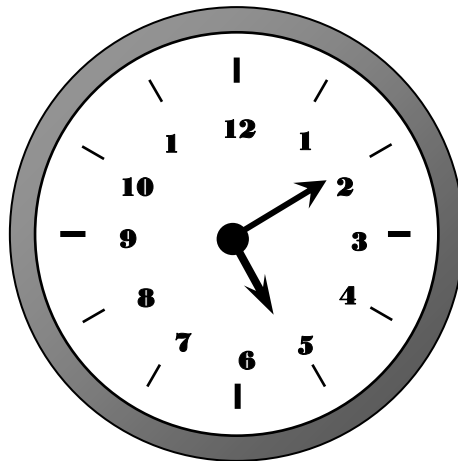
- A 8mins 20secs
- B 8mins 30secs
- C 8mins 40secs
- D 8mins 50secs

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- 14 It takes 75 minutes for Richard to drive home from his job at an electrical superstore.

The diagram shows the time on the clock in his car when he leaves the store.



What time does he arrive home?

- A 3:55pm
- B 5:55pm
- C 6:25pm
- D 7:25pm

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15 Lily and Charles are going to see an ice skating show.

The show starts at 7:30pm.

It runs for 2 hours 35 minutes.

What time does it finish?

A 9:05pm

B 9:35pm

C 10:00pm

D 10:05pm

16 A carton of fudge weighs 220 grams.

Another unit for weighing is

A millimetres

B kilograms

C kilometres

D litres

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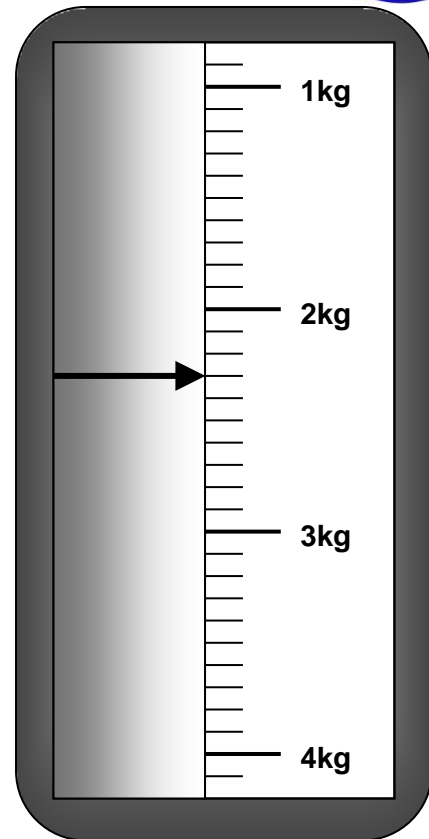


- 17 Magazines are delivered to newsagents in packets of 10.

The weight of a packet is checked with a spring balance. This diagram shows the reading.

What is the reading on the scale?

- A 2kg 300g
- B 2kg 333g
- C 2kg 600g
- D 3kg700g



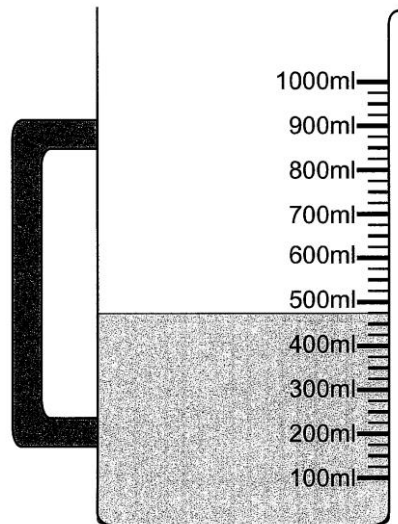
- 18 A baker weighs a small loaf.

A loaf can be weighed in

- A grams
- B centimetres
- C kilometres
- D litres



19 A cook measures out milk for a recipe for Broccoli Bake.



How much milk is in the jug?

- A 430ml
- B 460ml
- C 475ml
- D 525ml

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