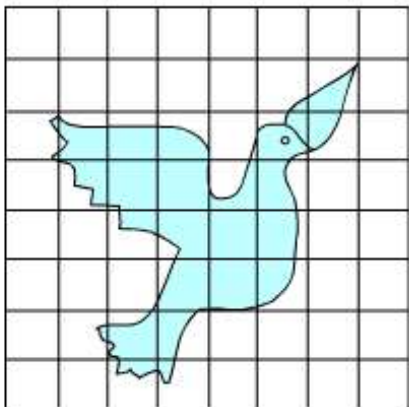Dylan drew this design on grid paper. Each square is 1 square centimetre.

(Not shown actual size)

The area of the design is about
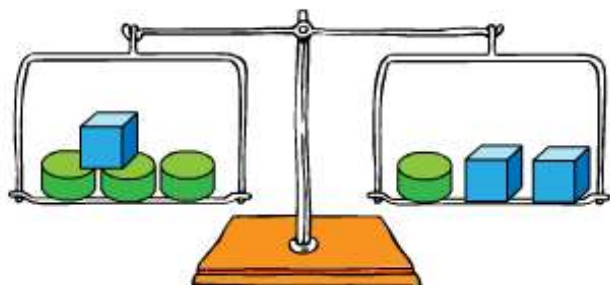
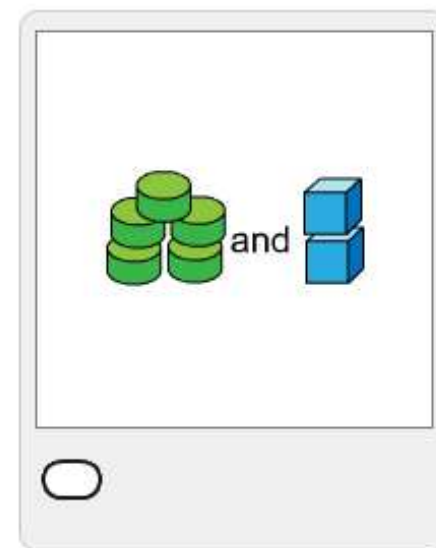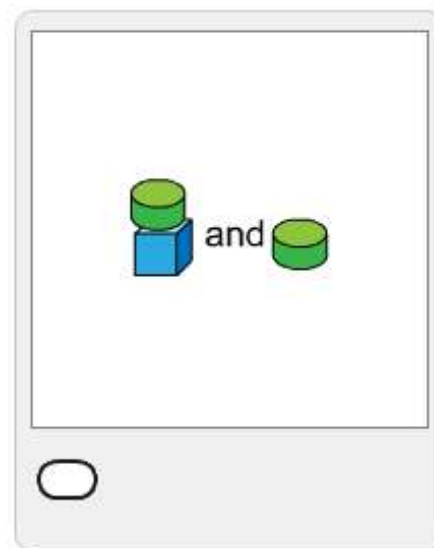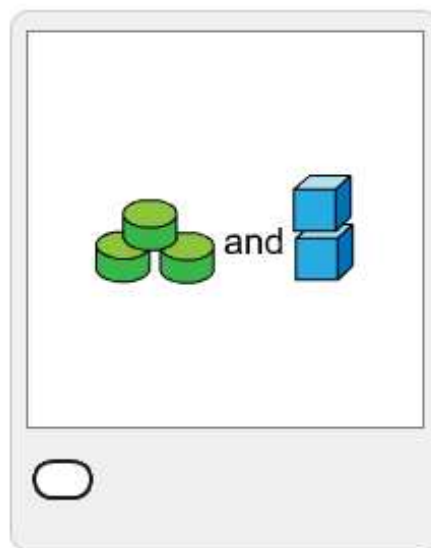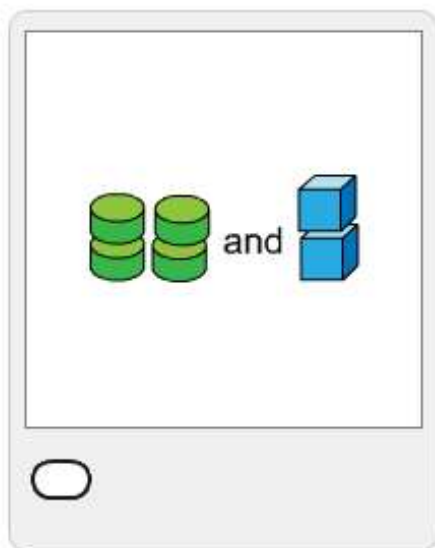| 10 cm^2	16 cm^2	22 cm^2	32 cm^2
⬭	⬭	⬭	⬭

The diagram shows a balance with discs and blocks.

Which of the following would also balance?
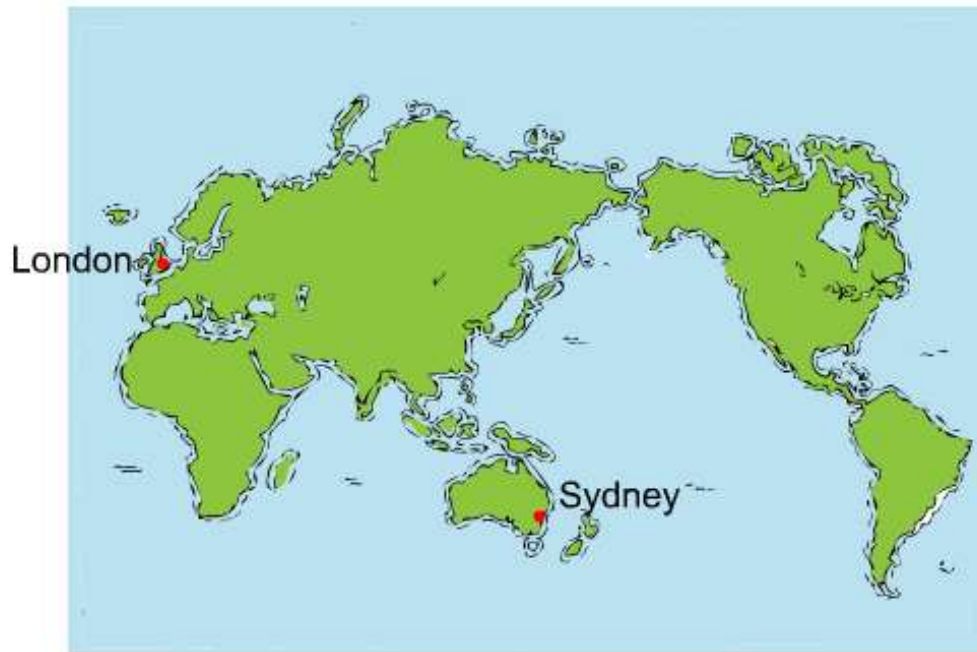
The time in London is 10 hours behind Australian Eastern Standard Time. A concert begins in London at 5 pm on Saturday and is shown live on television in Sydney.

In Sydney what time will it start?

- ⟋ 5 am Saturday
- ⟋ 7 am Saturday
- ⟋ 3 am Sunday
- ⟋ 7 am Sunday

This rectangle has a perimeter of 18 cm and an area of 18 cm^2.

(Not to scale)

The length of the rectangle could be

○ 2 cm

○ 6 cm

○ 9 cm

○ 12 cm
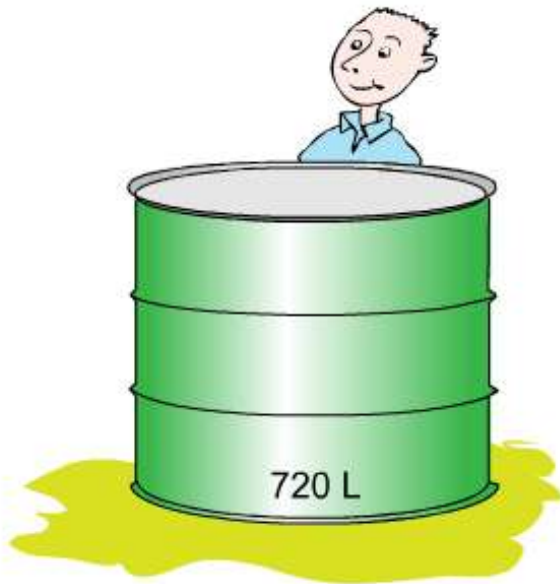
720 L

A tank is empty but, when full, holds 720 litres.

A tap is turned on and water flows into the tank at the rate of 2 litres per second.

How long will it take until the tank is full?

- ○ 10 s
- ○ 6 min
- ○ 10 min
- ○ 18 min
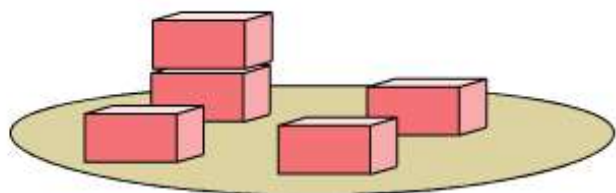
Reggie has small boxes that are 5 cm long, 4 cm wide and 3 cm high. She needs to pack them into a carton that is 40 cm long, 20 cm wide and 30 cm high.

How many small boxes can she pack into the carton?

- ⃝ 80
- ⃝ 240
- ⃝ 320
- ⃝ 400

One side of a triangle is 10 cm long. The perimeter of the triangle is 24 cm.
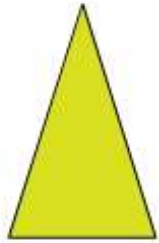
If the triangle has two sides that are equal in length, what could **not** be the length of one of the unknown sides?

- ◯ 4 cm
- ◯ 7 cm
- ◯ 10 cm
- ◯ 12 cm

The table shows the lengths (in kilometres) of ten rivers.

River	Length (km)
Volga	3700
Danube	2800
Thames	350
Nile	6700
Mississippi	3750
Amazon	6300
Yangtze	5000
Mekong	4200
Ganges	2500
Darling	2750

Which river is closest in length to the Darling?

○ Danube   ○ Ganges   ○ Mississippi   ○ Volga

The table shows the lengths (in kilometres) of ten rivers.

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Amazon	6300
Yangtze	5000
Mekong	4200
Ganges	2500
Darling	2750

Based on the information from the table, which statement is **not** correct?

○ The Ganges is half the length of the Yangtze.

○ The longest river is the Nile.

○ The Mississippi is more than ten times longer than the Thames.

○ The Mekong is 2100 km longer than the Amazon.

Daniel completed a fun run in 46 minutes.

If he finished the run at 10:24, what time did he start the run?

○ 9:22

○ 9:32

○ 9:36

○ 9:38

Four towns lie on a straight section of road.

Arndale   Beauford   Cliffleigh   Donald

(Not to scale)

The distance from

- Arndale to Donald is 24 km.
- Arndale to Cliffleigh is 17 km.
- Beauford to Donald is 19 km.
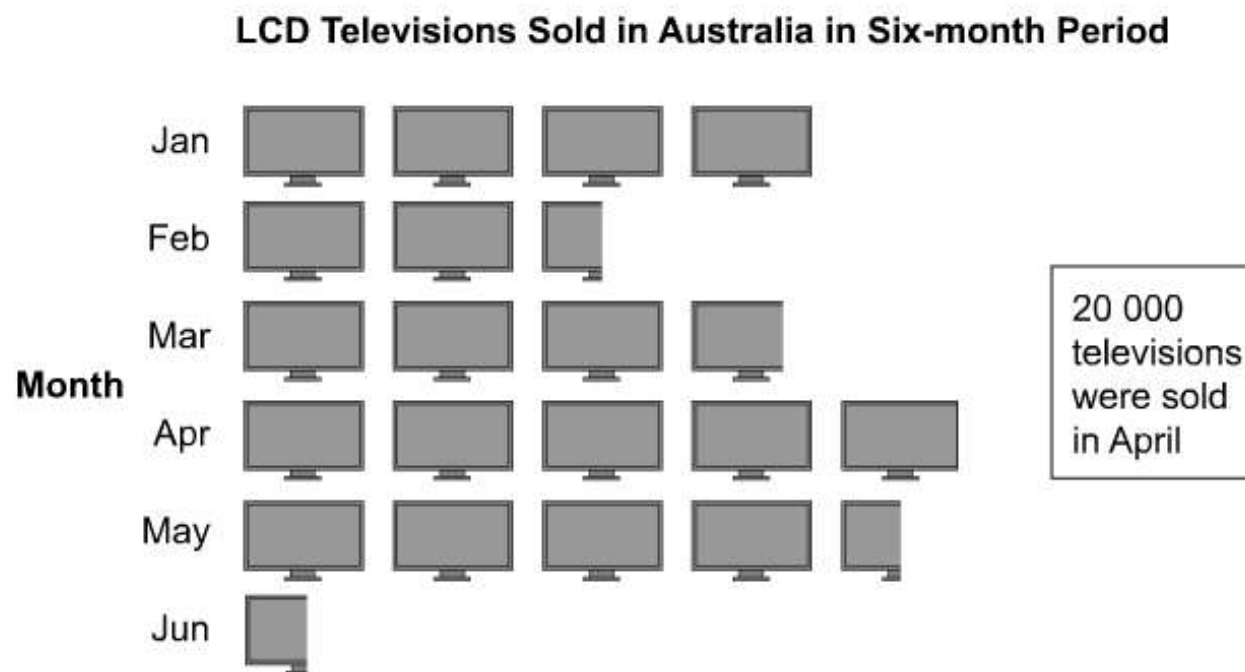
What is the distance between Beauford and Cliffleigh?

| ○ 8 km | ○ 12 km | ○ 14 km | ○ 16 km |

The graph shows the number of LCD televisions sold in Australia in a six-month period.

In April 20 000 televisions were sold.

LCD Televisions Sold in Australia in Six-month Period

20 000 televisions were sold in April

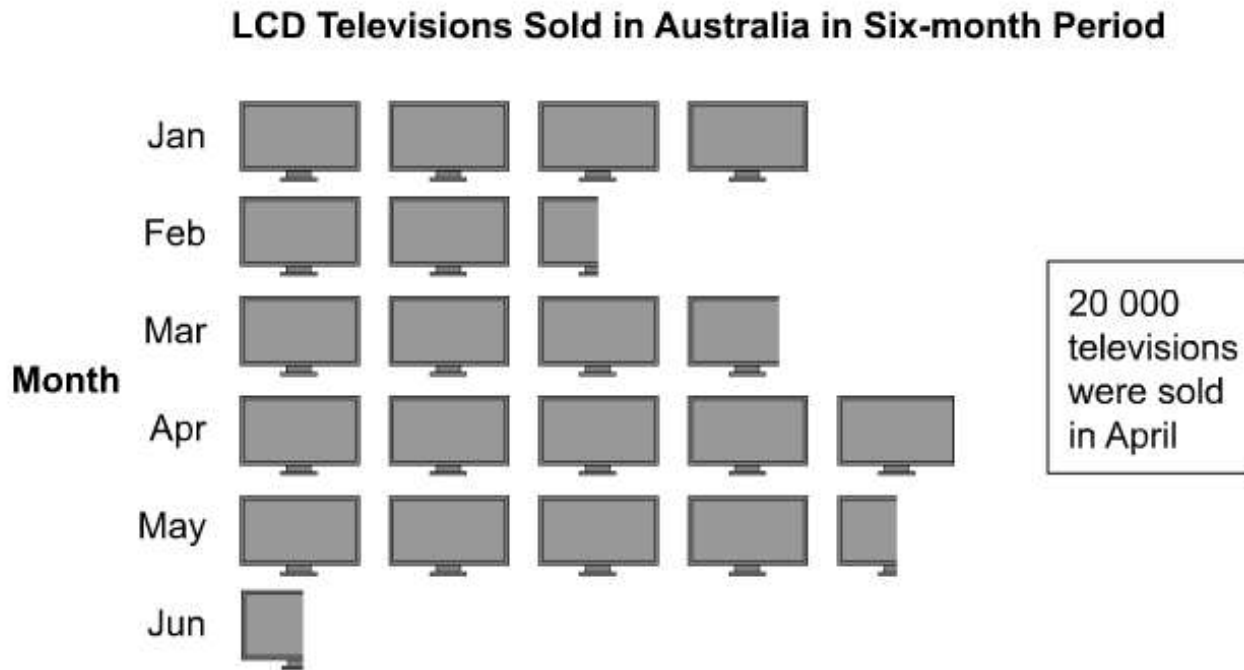How many televisions were sold in May?

- ○ 4500
- ○ 17 000
- ○ 18 000
- ○ 45 000

The graph shows the number of LCD televisions sold in Australia in a six-month period.

In April 20 000 television were sold.

LCD Televisions Sold in Australia in Six-month Period

In which month were five times as many televisions sold as the number sold in June?

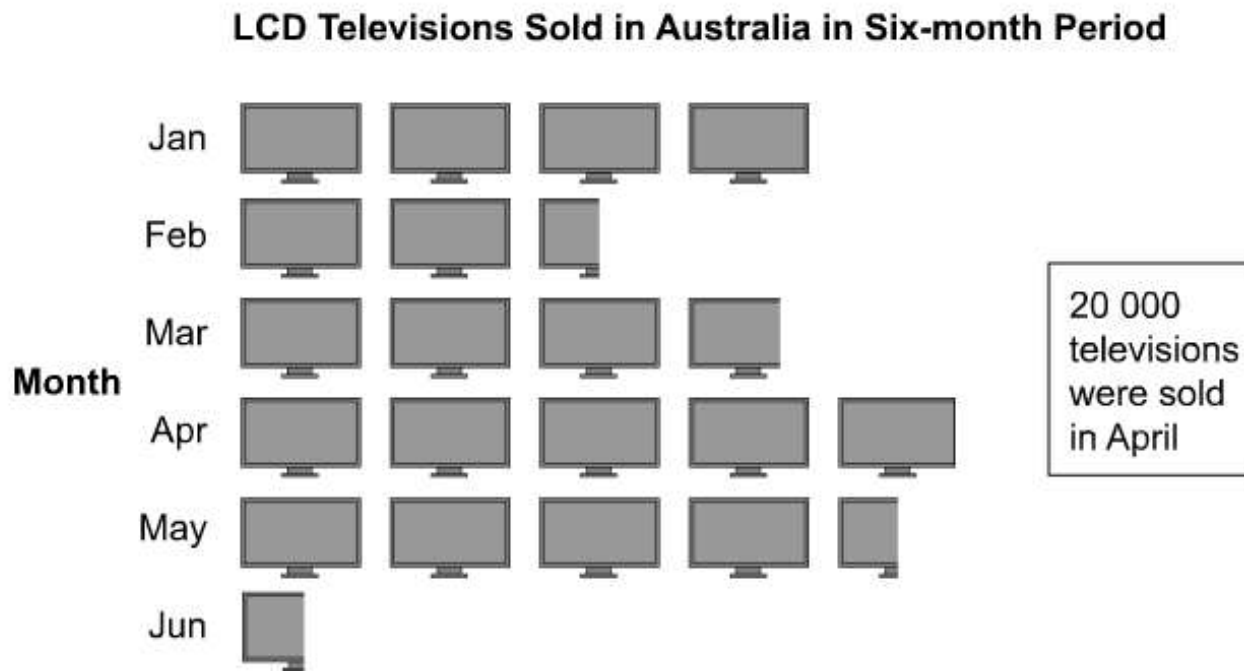- ◯ February
- ◯ March
- ◯ April
- ◯ May

The graph shows the number of LCD televisions sold in Australia in a six-month period.

LCD Televisions Sold in Australia in Six-month Period

How many more televisions were sold in January than February?
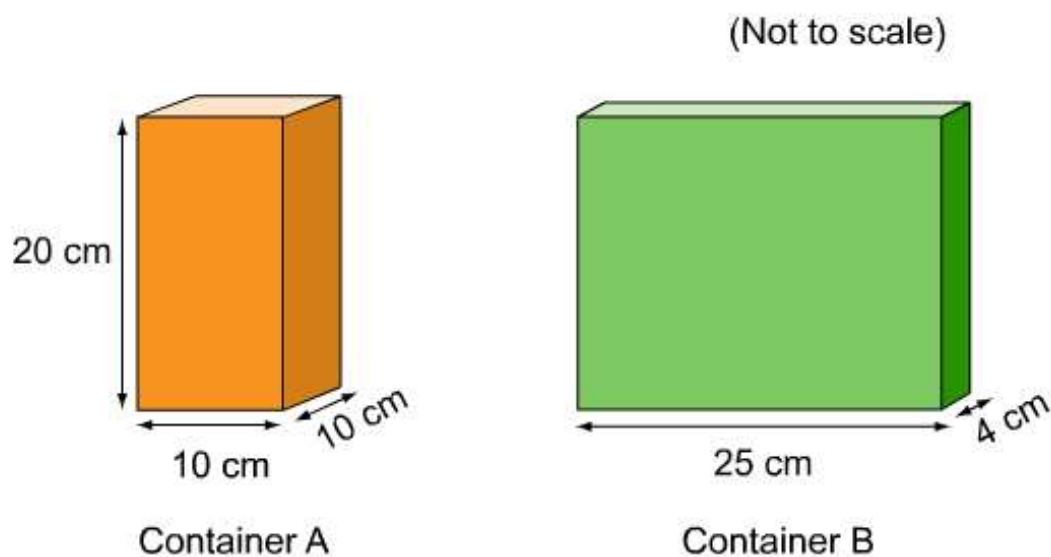
- ◯ 1500
- ◯ 3000
- ◯ 5000
- ◯ 6000

Two containers are in the shape of rectangular prisms.

Phillipa pours water into Container A.

She fills the container to the top. She then carefully pours all the water from Container A into Container B.

(Not to scale)

20 cm

10 cm

10 cm

Container A

25 cm

4 cm

Container B

What is the depth of water in Container B?

- ◯ 10 cm
- ◯ 15 cm
- ◯ 20 cm
- ◯ 25 cm

A rally car passes a checkpoint at 3:07 pm at a speed of 60 km/h.

If the car maintains this speed, at what time will it pass the next checkpoint 12 kilometres away?

- ◯ 3:12 pm
- ◯ 3:19 pm
- ◯ 3:24 pm
- ◯ 4:19 pm

Juanita takes 50 paces to walk 40 metres.

She counted her paces from the school canteen to the front gate.

If Juanita took 75 paces, what is the distance?

- ⦰ 50 m
- ⦰ 55 m
- ⦰ 60 m
- ⦰ 66 m

A team of six workers take 4 days to complete a job.

If the identical job had been completed by a team of eight workers, how long would it take?
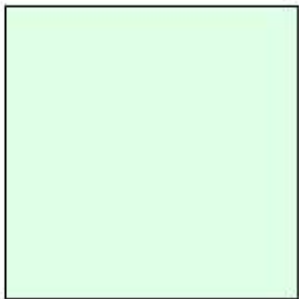
2 days	$2\frac{1}{2}$ days	3 days	$3\frac{1}{2}$ days
◯	◯	◯	◯

This square has an area of 16 square centimetres.

All the sides of the original square are reduced to one-quarter of their original length when another square is drawn.
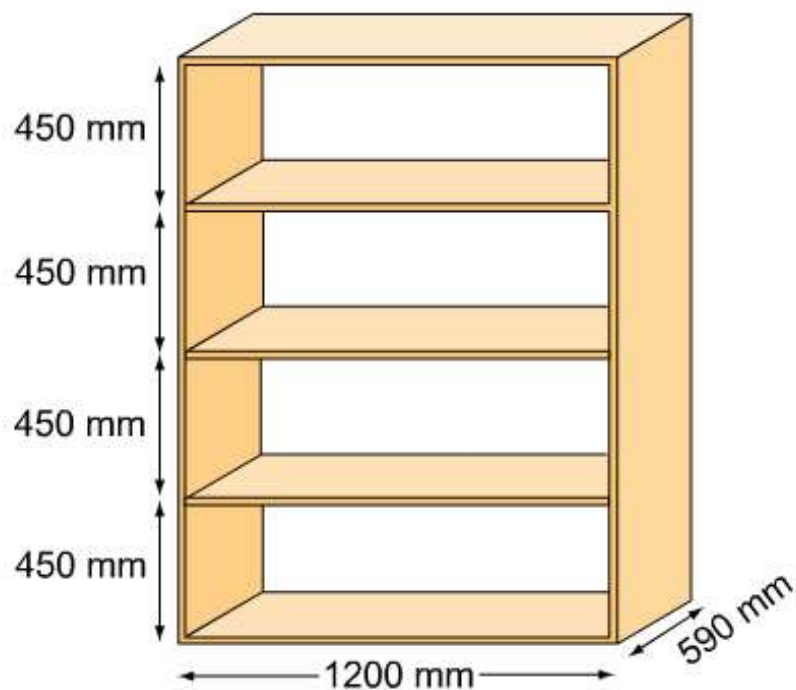
What is the area of the smaller square?

1 cm^2	2 cm^2	4 cm^2	8 cm^2
⬭	⬭	⬭	⬭

Lily is making a bookshelf. She has drawn a sketch of the bookshelf showing the measurements.

450 mm

450 mm

450 mm

450 mm

590 mm

1200 mm

Lily is going to build the bookcase, which has no back, from board that is 590 millimetres wide.

The total length of board that Lily will need is about

○ 6 m

○ 8 m

○ 10 m

○ 12 m