

A container of size 1 cubic metre holds 1 kilolitre of water.

A tank is a rectangular prism 3 metres long, 2 metres wide and 1.5 metres deep.

How many kilolitres of water will it hold?

☐ 5

☐ 6.5

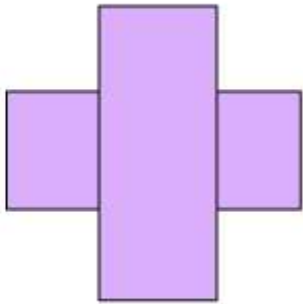
☐ 7.5

☐ 9

Two identical rectangles each measure 8 cm by 4 cm.



The rectangles overlap to form a cross.



Diagrams not to scale

What is the area of the shaded cross?

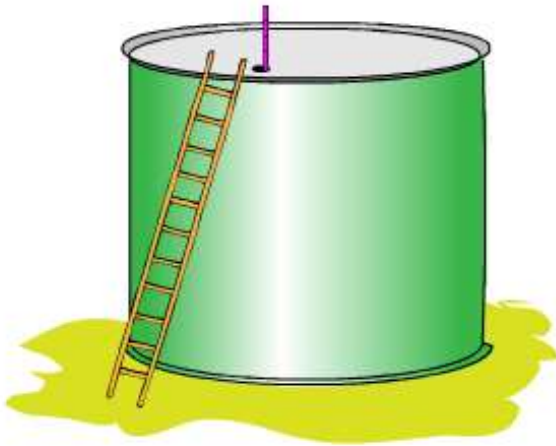
42 cm²

48 cm²

60 cm²

64 cm²

One day Mr Richardson estimated that the school's water tank was one-quarter full.



That night there was a thunderstorm and 15 millimetres was recorded on the school's rain gauge.

The next morning Mr Richardson announced that the tank was now half full of water.

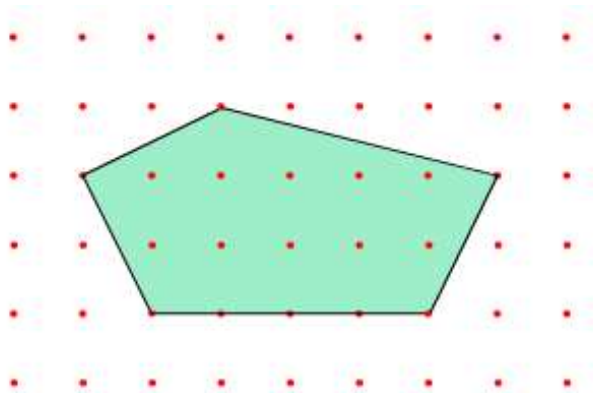
How much more rain needs to fall to fill the tank?

☐ 5 mm

☐ 15 mm

☐ 25 mm

☐ 30 mm



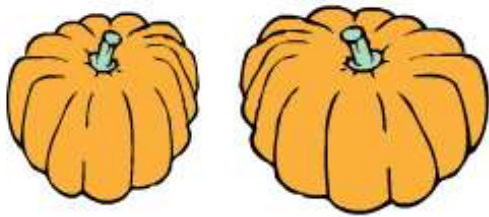
The shaded area is

☐ 8 square units

☐ 13 square units

☐ 15 square units

☐ 18 square units



The total mass of two pumpkins is 8.4 kilograms.

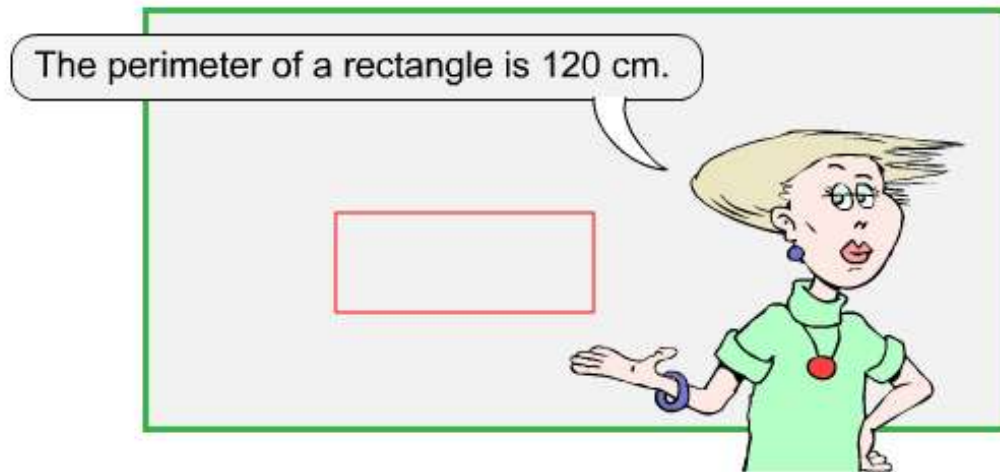
If one pumpkin is 800 grams heavier than the other, what is the mass of the heavier pumpkin?

☐ 4 kg

☐ 4.6 kg

☐ 4.8 kg

☐ 9.2 kg



If the breadth of the rectangle is 20 centimetres, what is the area of the rectangle in square centimetres?

☐ 80

☐ 100

☐ 800

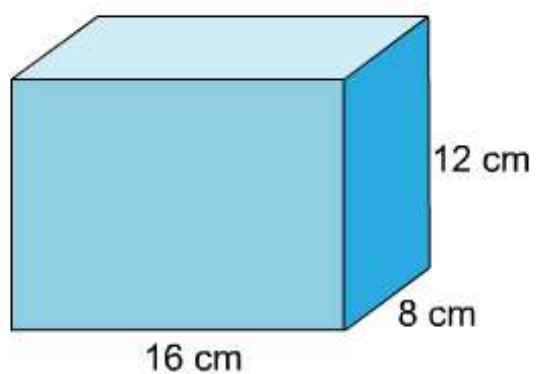
☐ 1000

Some scarves are hanging on a straight piece of rope. The centre of the red scarf is 70 centimetres from the centre of the blue scarf. The centre of the yellow scarf is 40 centimetres from the centre of the red scarf.

Which statement is correct?

- ☐ The blue scarf must be 30 cm from the yellow scarf.
- ☐ The blue scarf must be 110 cm from the yellow scarf.
- ☐ The blue scarf could be 30 cm or 110 cm from the yellow scarf.
- ☐ The blue scarf could be 80 cm or 140 cm from the yellow scarf.

A solid rectangular prism is 16 cm long, 8 cm wide and 12 cm high.



Enrique needs to cut cubes with side length 4 cm from the rectangular prism.
What is the largest number of cubes he can cut?

☐ 4

☐ 16

☐ 24

☐ 48



Kevin's train was scheduled to depart at 9:27.

The train departed 15 minutes late.

If the journey took 1 hour 19 minutes, what time did Kevin reach his destination?

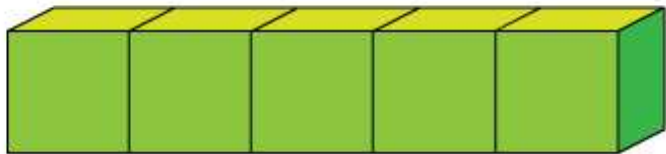
☐ 10:57

☐ 10:59

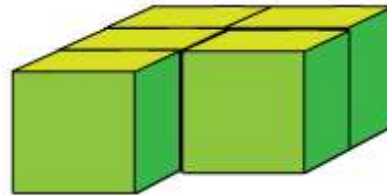
☐ 11:01

☐ 11:03

Jemma and Emma take turns in arranging five identical cubes each with side length of 1 cm.



Jemma's model



Emma's model

The surface area of a solid is the total area of all its faces.

What is the difference in the surface area of the two models?

☐ 2 square centimetres

☐ 3 square centimetres

☐ 4 square centimetres

☐ 5 square centimetres

The lowest temperature during a day is called the minimum and the highest temperature is called the maximum.

| <i>Day</i> | <i>Minimum temperature</i> | <i>Maximum temperature</i> |
|------------|----------------------------|----------------------------|
| Monday | 9° | 21° |
| Tuesday | 7° | 20° |
| Wednesday | 6° | 18° |
| Thursday | 10° | 22° |
| Friday | 14° | 23° |

What is the difference between the highest temperature and the lowest temperature during the week?

17°

☐

18°

☐

19°

☐

20°

☐

The lowest temperature during a day is called the minimum and the highest temperature is called the maximum.

| <i>Day</i> | <i>Minimum temperature</i> | <i>Maximum temperature</i> |
|------------|----------------------------|----------------------------|
| Monday | 9° | 21° |
| Tuesday | 7° | 20° |
| Wednesday | 6° | 18° |
| Thursday | 10° | 22° |
| Friday | 14° | 23° |

On what day was the difference between the maximum and minimum temperatures the greatest?

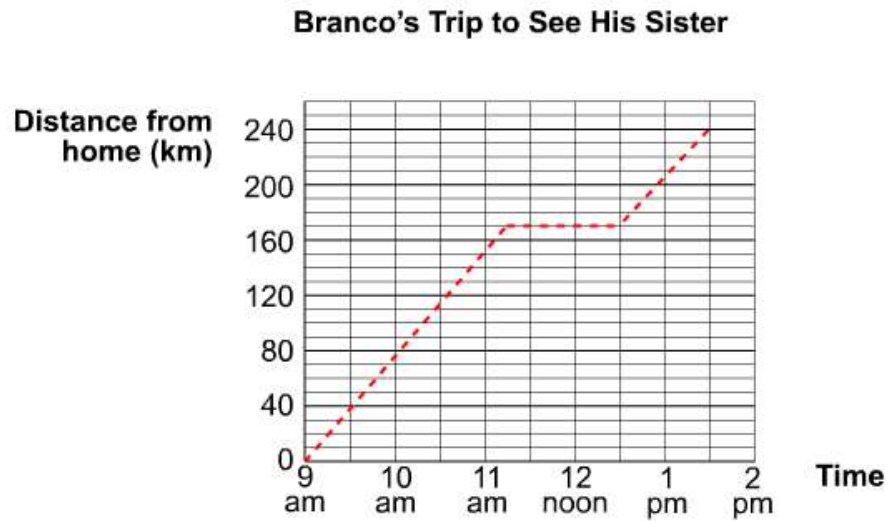
☐ Monday

☐ Tuesday

☐ Wednesday

☐ Thursday

Branco left his home to travel to his sister's house. He arrived at her house at 1:30 pm.
His travel graph appears below.



Branco stopped for a break after a couple of hours.

For how long was Branco stopped?

☐ one hour

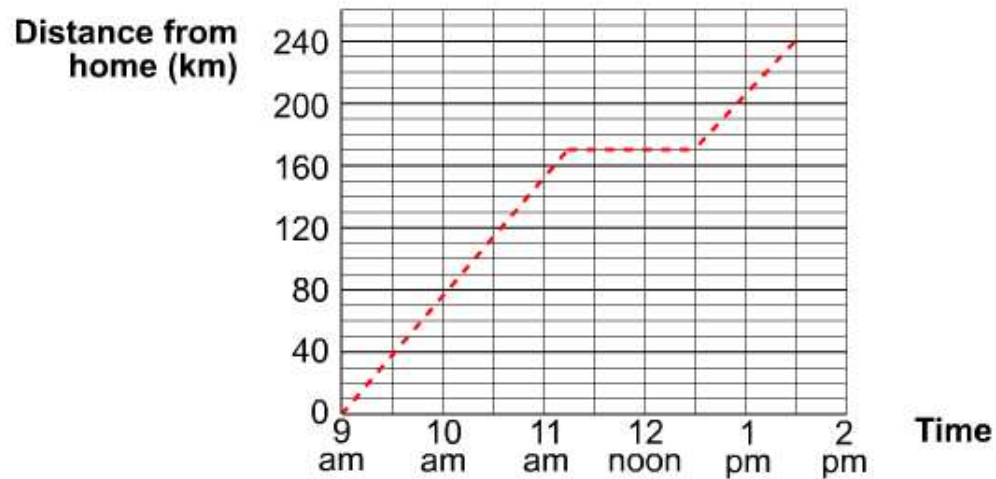
☐ an hour and a quarter

☐ an hour and a half

☐ an hour and three-quarters

Branco left his home to travel to his sister's home. He arrived at her house at 1:30 pm.
His travel graph appears below.

Branco's Trip to See His Sister



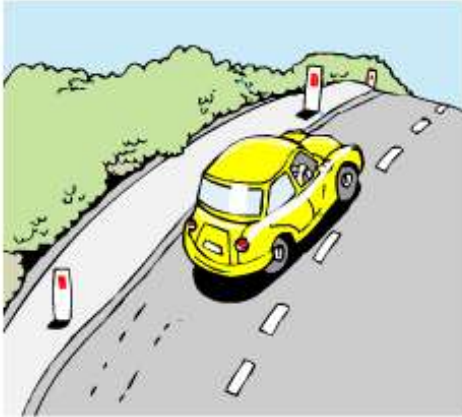
At 11:00 am what fraction of the distance did Branco still have to travel?

$$\frac{1}{4}$$

$$\frac{3}{4}$$

$$\frac{5}{8}$$

$$\frac{3}{8}$$



Leah travels at a speed of 80 km/h for 45 minutes.

How far will she travel?

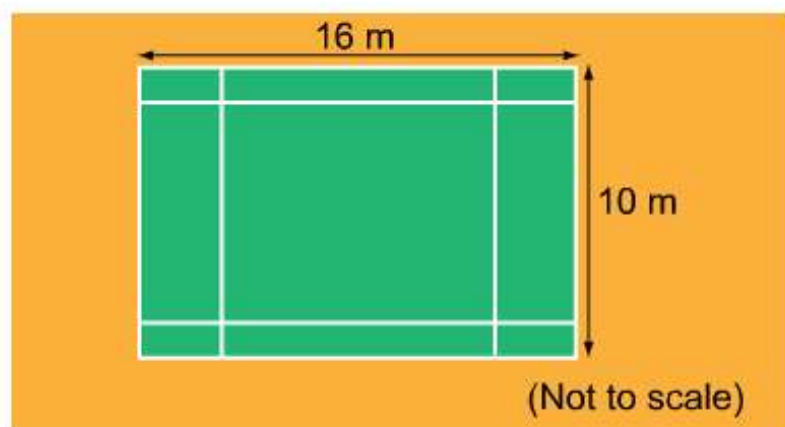
☐ 50 km

☐ 60 km

☐ 72 km

☐ 120 km

An indoor court has painted lines on the floor.



What is the total length of lines that have been painted?

☐ 104 m

☐ 114 m

☐ 160 m

☐ 320 m

Liam's tricycle has its front wheel bigger than its back wheels. The front wheel has a circumference of 160 centimetres and each of the back wheels have a circumference of 80 centimetres.



If the front wheel turns 20 times, how many times will one of the back wheels turn?

☐ 10

☐ 20

☐ 40

☐ 80

Liam's tricycle has its front wheel bigger than its back wheels. The front wheel has a circumference of 160 centimetres and each of the back wheels have a circumference of 80 centimetres.



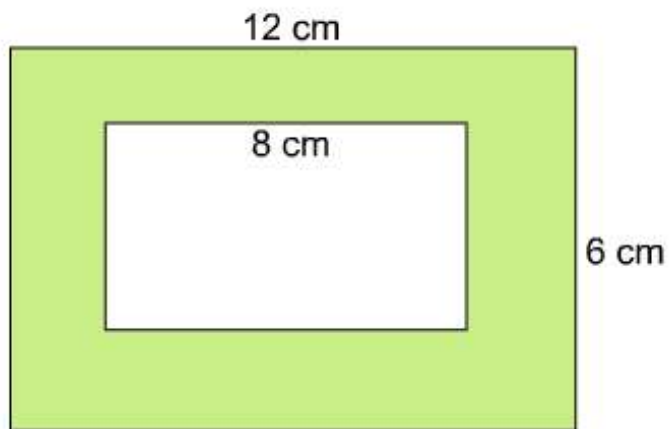
If the tricycle travels 160 metres, how many times will the front wheel turn?

☐ 50

☐ 100

☐ 160

☐ 200



(Not to scale)

The shaded area between the two rectangles measures 32 square centimetres.

What is the width of the smaller rectangle?

☐ 2 cm

☐ 3 cm

☐ 4 cm

☐ 5 cm

The table shows the price of four different meats available at Joe's Deli.

| Type of meat | Mass (g) | Cost |
|--------------|----------|--------|
| Salami | 500 | \$7.00 |
| Ham | 100 | \$2.00 |
| Pastrami | 250 | \$4.00 |
| Pepperoni | 200 | \$5.00 |



What is the cheapest meat per kilogram?

☐ Salami

☐ Ham

☐ Pastrami

☐ Pepperoni