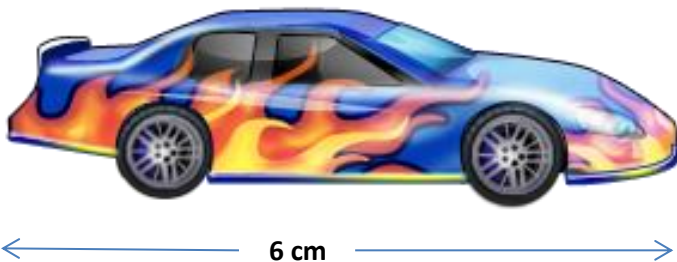


National 3 Mathematics Lifeskills: Shape, Space and Measures

9. The picture below is of a toy car based on a real model.



The length of the toy car is 6 centimetres.

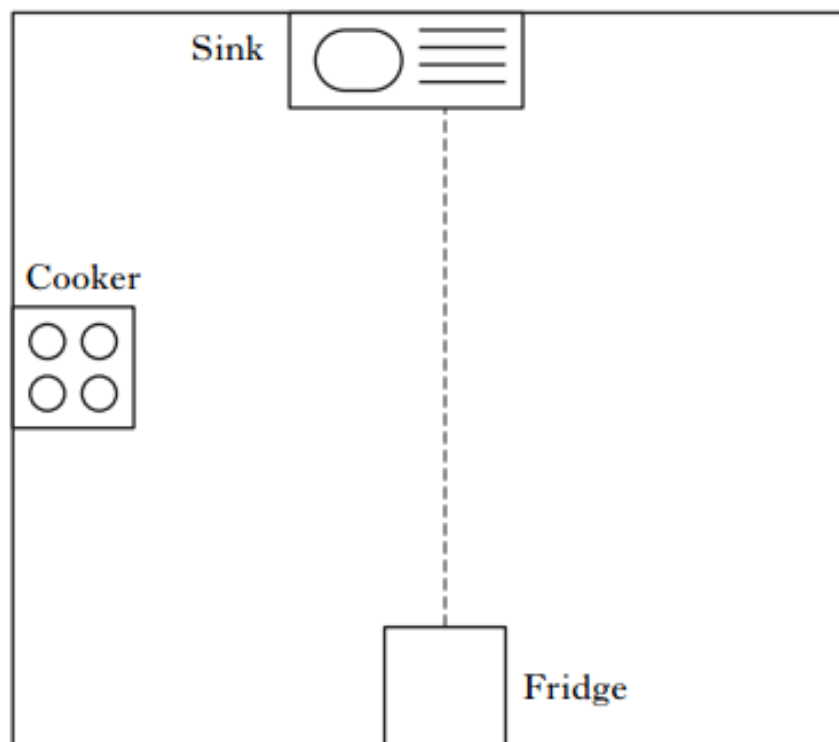
The scale of the toy car to the real model is:

1 centimetre represents 50 centimetres

Find the actual length of the real model.

10. SQA 2011 Foundation

This is a plan of Gordon's kitchen.

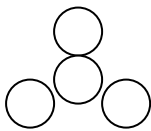


- (a) A broken line has been drawn on the plan to show the distance from the fridge to the sink.

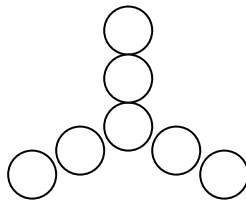
Measure this distance.

- (b) The scale of the plan is **1 centimetre represents 50 centimetres**.
Find the actual distance from the fridge to the sink in centimetres.
- (c) Write down the actual distance from the fridge to the sink **in metres**.

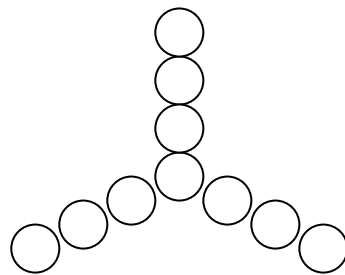
11. These patterns are made with circles.



Pattern 1



Pattern 2



Pattern 3

(a) Draw the next pattern.

(b) Complete this table.

Pattern number	1	2	3	4	5
Number of circles	4	7			

(b) How many circles would be needed for Pattern 11?

12. SQA 2013 Foundation

Posters are put on a wall using drawing pins at their corners as shown below.



1 poster

4 drawing pins



2 posters

6 drawing pins



3 posters

(a) Complete the table.

Number of posters	1	2	3	4	5	6		11
Number of drawing pins	4	6						

(b) Write a rule for finding the number of drawing pins if you know the number of posters.

13. SQA 2013 Foundation

The opening times of a Recycling Centre are shown below.

<i>Recycling Centre Opening Times</i>	
<i>Summer (April to September)</i>	
Mon – Fri	07 00 – 20 00
Sat – Sun	08 30 – 17 00
<i>Winter (October to March)</i>	
Mon – Fri	07 00 – 17 00
Sat – Sun	08 30 – 16 00

NLC N3L SSM

For how long is the Recycling Centre open on Saturday 9th February?

14. Jen starts watching a movie at 6.45 pm.
The movie lasts for 2 hours and 25 minutes.
What time will the movie finish?
15. Michael is going from the city centre to the airport by bus.
The buses run at regular intervals 24 hours a day.
Part of the bus timetable is shown below:

Bus timetable

Depart: City centre	2000	2010	2020					
Arrive: Airport	2025	2035	2045					

- (a) Complete the timetable to show the departure and arrival times of the next five buses.
- (b) Michael has decided to catch the bus which leaves the city centre at 0930.
What time will he arrive at the airport?
16. The table shows part of the Edinburgh to Aberdeen railway timetable.

Edinburgh	0755	0935	1130	1235	1420
Kirkcaldy	0830	1010	1205	1308	1455
Dundee	0923	1106	1300	1405	1602
Aberdeen	1038	1220	1415	1520	1719

- (a) When does the 1130 train from Edinburgh arrive in Dundee?
- (b) How long does this train take to go from Edinburgh to Dundee?
- (c) Ellie has to travel from Kirkcaldy to Aberdeen for a meeting at 4 pm.
What is the latest train she can take from Kirkcaldy?

Answers

9 300 cm or 3 m

10 Use diagram to check

11 a) check drawing b) 10, 13, 16 c) 34

12 a) 8, 10, 12, 14, 24 b) 2×posters + 2

13 7 hours 30 mins

14 9.05 pm

15 a) table b) 0955

16 a) 1300 or 1pm b) 1 hour 30 mins c) 1308