REASONING

6ER18

First name _____

Last name _____

School _____

Class _____

Date of birth ⬭⬭ ⬭⬭ ⬭⬭⬭⬭

Date of test ⬭⬭ ⓪⑤ ②⓪①⑧

Total score ⬭ (maximum 20)

Llywodraeth Cymru
Welsh Government

Write the missing information in Cerian's report.

My report

Number of children who voted for each type of book

	Fiction	Nature	History	Total
Year 3	8	10	11	29
Year 4	6		8	26
Year 5	7			24
Year 6	13	10	5	28
Total	34	38	35	

	Most popular type of book
Year 3	
Year 4	
Year 5	
Year 6	

The type of book that got the most votes is ☐

2m

2m

Fiction	Nature	History
£5 per book	£7 per book	£8 per book

Cerian buys the **same number** of fiction, nature and history books.

She spends exactly **£240**

How many of each type of book does she buy?

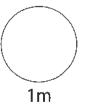of each type of book
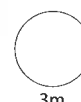
2 The table shows three number patterns.

The number patterns continue down each column.

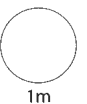|	Column A	Column B	Column C
Row 1	10	5	2
Row 2	20	10	4
Row 3	30	15	6
Row 4	40	20	8
Row 5	50	25	10
Row 6			

10 is in column A row 1, column B row 2 and column C row 5
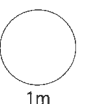
Work out where 100 will be.
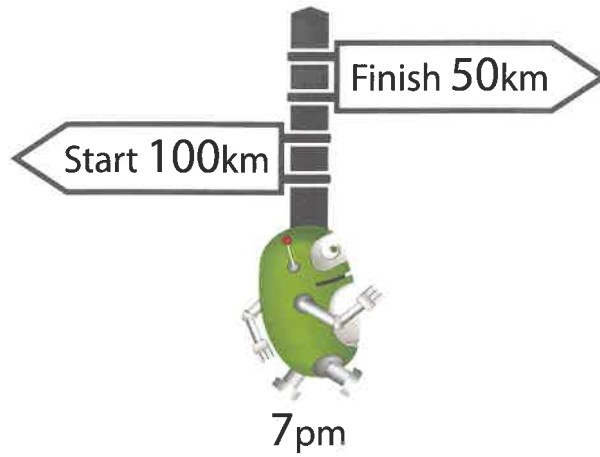
100 will be in column A row ☐

100 will be in column B row ☐

100 will be in column C row ☐

1m

1m

1m

3 The robot moves in straight lines at the **same speed**.

At 7pm it reaches this sign.

Finish 50km

Start 100km
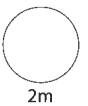
7pm

The robot left the start at 3pm.

At what time will it reach the finish?

pm

2m
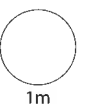
The next day, the robot moves like this:

forward 25m, turn right 90°, forward 50m, turn right 90°,

forward 25m, turn right 90°, forward 50m

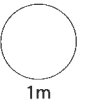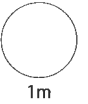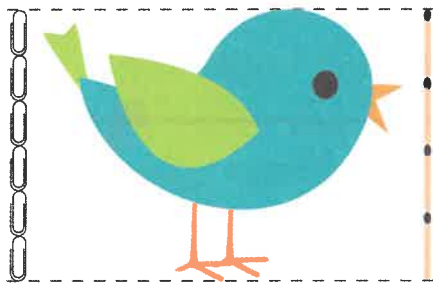What **shape** is the robot's path?

Write the name of the shape.

1m

TOTAL

6m

Write the missing numbers in these multiplication tables.

×	2	
3	6	18
	8	

×	2	
	14	63
		72

1m

1m

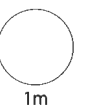**5** A drawing of a bird is 6 paperclips or 4 matchsticks high.

Not drawn accurately

A drawing of a cat is 12 **paperclips** high.

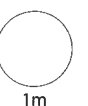How many matchsticks high is it?

(Hint: the answer is **not** 10)

matchsticks

1m

A drawing of a rabbit is 6 **matchsticks** high.

How many paperclips high is it?

paperclips

1m

6   A shop sells toy cars and finger puppets.

All finger puppets cost the same.

1 car and 5 puppets cost £2.85

1 car and 10 puppets cost £5.10

Work out the cost of **1 car**.

p

3m

TOTAL

7m