

# REASONING

## 6ER18

First name \_\_\_\_\_

Last name \_\_\_\_\_

School \_\_\_\_\_

Class \_\_\_\_\_

Date of birth ○ ○ ○ ○ ○ ○ ○ ○

Date of test ○ ○ ○ 0 5 ○ 2 0 1 8

Total score  (maximum 20)



165103



Llywodraeth Cymru  
Welsh Government



Write the missing information in Cerian's report.



**My report**

Number of children who voted for each type of book

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

2m

	<b>Most popular type of book</b>
<b>Year 3</b>	
<b>Year 4</b>	
<b>Year 5</b>	
<b>Year 6</b>	

The type of book that got the most votes is

2m



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

3m

TOTAL  
7m

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



1m

100 will be in column B row



1m

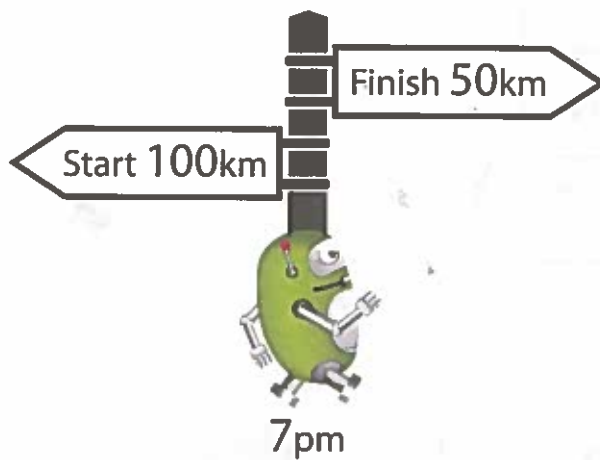
100 will be in column C row



1m

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

At 7pm it reaches this sign.



The robot left the start at 3pm.

At what time will it reach the finish?

pm

The next day, the robot moves like this:

forward 25m, turn right  $90^\circ$ , forward 50m, turn right  $90^\circ$ ,

forward 25m, turn right  $90^\circ$ , forward 50m

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

Write the name of the shape.



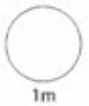
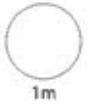
TOTAL



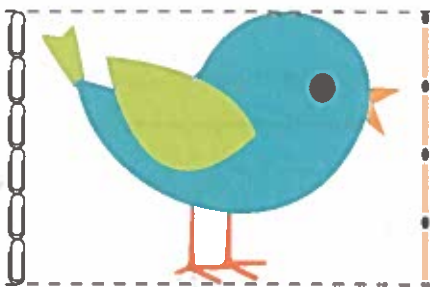
4 Write the missing numbers in these multiplication tables.

	×	2	
3		6	18
		8	

	×	2	
		14	63
			72



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



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

How many paperclips high is it?

paperclips



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