

REASONING

6ER18

First name _____

Last name _____

School _____

Class _____

Date of birth

Date of test

Total score (maximum 20)



165103



Llywodraeth Cymru
Welsh Government

- 1 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

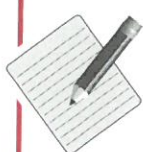


Fiction £5 per book	Nature £7 per book	History £8 per book
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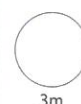
Cerian buys the **same number** of fiction, nature and history books.

She spends exactly £240

How many of each type of book does she buy?



of each type of book



- 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			

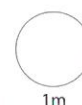
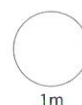
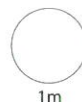
10 is in column A row 1, column B row 2 and column C row 5

Work out where 100 will be.

100 will be in column A row

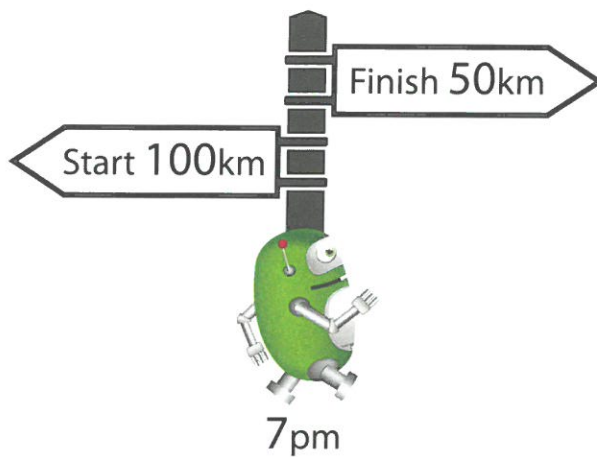
100 will be in column B row

100 will be in column C row



- 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



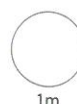
The next day, the robot moves like this:

forward 25m, turn right 90° , 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.



TOTAL

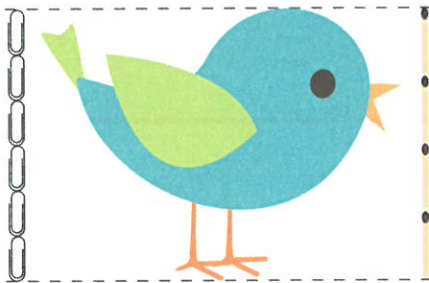


- 4 Write the missing numbers in these multiplication tables.

×	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

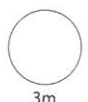


1 car and 10 puppets cost £5.10

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



p



TOTAL



