

REASONING

5ER17

First name _____

Last name _____

School _____

Class _____

Date of birth ○○ ○○ ○○○○

Date of test ○○ 05 2017

Total score (maximum 20)



1 Here is Farah's sponsorship form for last year.

Dad	50p for each length the team swims
Mum	£10



Last year Farah's team swam 8 lengths altogether.

How much money did Farah get?

£



Here is Farah's sponsorship form for this year.

Dad	50p for each length the team swims
Mum	£15



This year Farah gets £27

How many lengths did her team swim this year?



lengths



Aled's team:

There are three children.

They swim one length at a time in this order:

Aled,



then Aled again,



then Siân,



then Lucy.



The team swims a total of 40 lengths.

Each length is 25 metres.

Work out how many metres Aled swims in total.



metres



2m

TOTAL



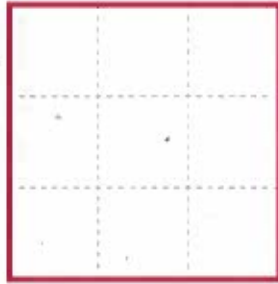
5m

2 Divide the red square ...

into 2 equal parts



into 3 equal parts



into 4 equal parts



3 The **smallest** doll weighs 10 grams.

10 grams



Each doll weighs **half** as much as the next doll.

Altogether, what do the five dolls weigh?

grams



- 4 Complete each number sentence, across and down.

Write a whole number in each square.

Write +, -, × or ÷ in the circle.

$$\begin{array}{ccccccc} \square & \times & \square & = & 36 \\ & & \circ & & \\ & & 6 & & \\ & & = & & \\ 12 & \div & \square & = & 4 \end{array}$$

- 5 Together 2 balls weigh 0.8kg.



Altogether, what do 3 of these balls weigh?





kg



6 12 children are in three teams for a race.



Red team (R)



Blue team (B)




Yellow team (Y)







The 1st child to finish gets 1 point, the 2nd gets 2 points, the 3rd gets 3 points, and so on.

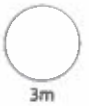
At the end of the race, each team has exactly the **same** number of points.

Complete the table below to show all results of the race.

Use **R** for red and **Y** for yellow.



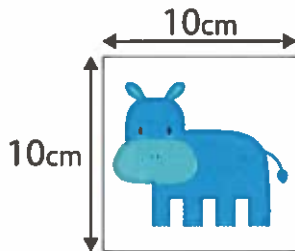
1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th
											
B			R	R	B		B				B



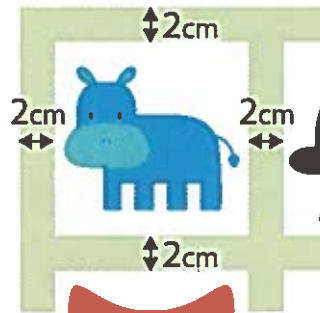
- 7 25 small pictures are stuck onto a big piece of card.




Each small picture is 10cm wide and 10cm long.



Around each small picture is 2cm of card like this:



How wide and how long is the big piece of card?



cm widecm long