END OF PRIMARY BENCHMARK 2015

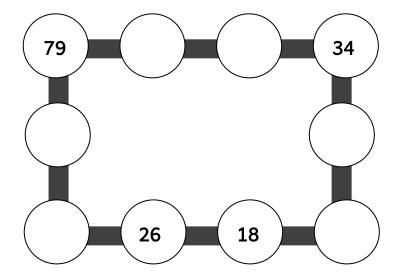
MATHEMATICS
WRITTEN PAPER

80 marks

1 hour 30 minutes

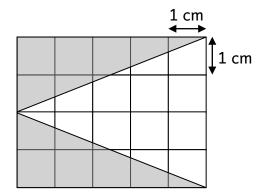
1. Work out.

2. Write numbers in each circle to make each line add up to 150.



3. Look at the shape below.

Work out the area of the shaded part.



You can show your working here.

_____ cm²

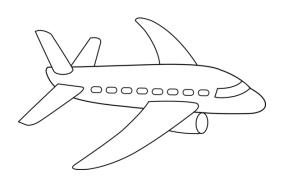
4. There are **108 people** on a plane.

Half are men.

A quarter are women.

The rest are children.

How many children are on the plane?



You can show your working here.

_ children

5. Keith finds these coins in his money box.

Coin	2c	5c	20c	€1
Number of Coins	10	4	8	5

a. Work out the total amount of money that Keith has.

You can show your working here.

€ ____-

b. Keith wants to buy a book that costs **€10·50**.

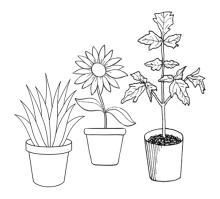
How much more money does he need to save?

You can show your working here.

€ ____-

6. The table below shows the plants sold by 3 children during a fair.

Name	Number of plants sold
Petra	42
Amanda	31
Isaac	38



a. Work out the average number of plants sold.

You can sho your workin here.			
		Г	
			plants

b. Their teacher sold another 57 plants during this fair.

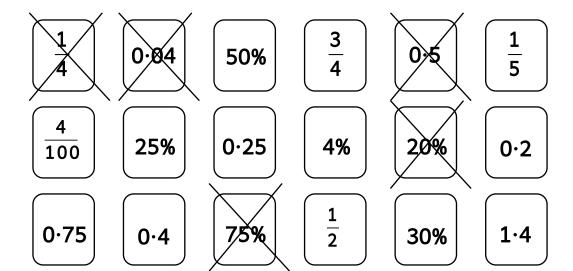
How many plants did they sell in all?

You can show your working here.			
		_	plants

7	Look	at the	cards	helow	,
1.	LOOK	at the	curus	Delow	Ι.

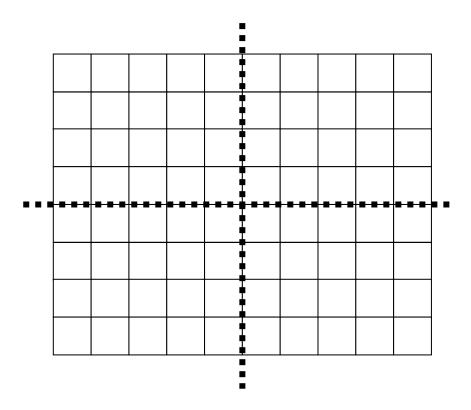
Choose the correct cards to complete the table.

Note: There are some extra cards.

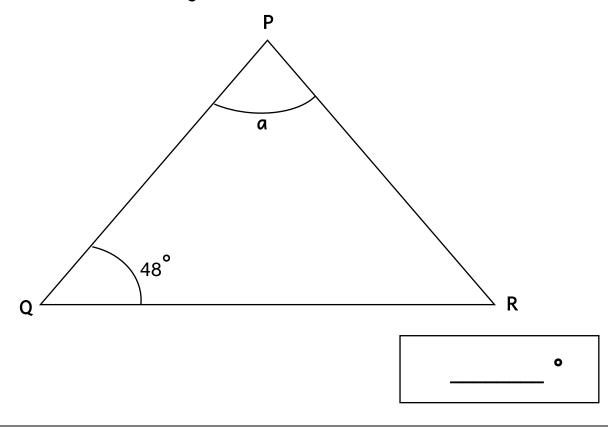


	decimal numbers	fractions	percentages
a.	0.5 =		=
b.	=		= 20%
C.	=		= 75%
d.	=	1 4	=
e.	0.04 =		=

Look at the recipe below which makes 10 muffins. 8. Anton, Mary and Lisa make muffins using this recipe. **Chocolate Muffins Recipe** 200 g flour 180 g butter 150 g sugar 2 eggs 2 tablespoons chocolate powder Anton makes 25 chocolate muffins. a. How many kilograms of flour does he use? You can show your working here. kilograms How many muffins does Mary make with 7 eggs? b. You can show your working here. muffins Lisa uses 75 grams of sugar. c. How much butter does she use? Give your answer in **grams**. You can show your working here. grams Mathematics - Written Paper - End of Primary Benchmark - 2015 Page 7 of 15 9a. On the grid below, use a ruler to **draw a shape** that has a **vertical line of symmetry and a horizontal line of symmetry.**



b. The triangle below is an isosceles triangle.
 Side PQ and side PR are of the same length.
 Work out the size of angle a.



10. The following is the amount of water 4 children drink in one day.

ВО	YS	GII	RLS
ТОМ	BRIAN	SILVIA	LORNA
150 <i>m</i> l	1.05 ℓ	1ℓ	$\frac{3}{4}\ell$



	_			_		_	
a.	Who	drinks	the	largest	amount	of wate	er?

Lorna wants to drink as much as Silvia. b. How much more does Lorna need to drink? Give your answer in $m\ell$.

You can show your working here.

How much water do the boys drink in total? Give your answer in $m\ell$.

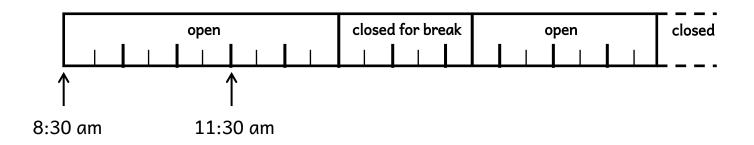
You can show your working here.

- Brian says that the boys drink more water than the girls. d.
- Is he right? Tick (\checkmark) the correct answer. i.

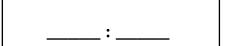
es		No	
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II .	Give a reason for your answer.	

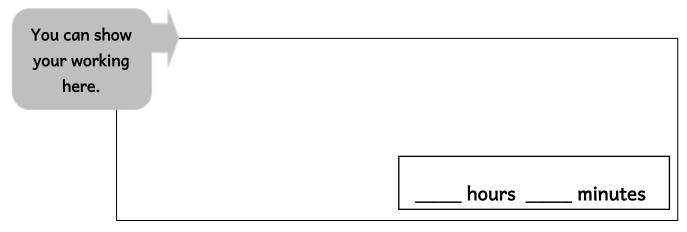
11. The timeline below shows the daily opening hours of a shop.



a. At what time does the shop close for break?



b. How long does the **shop stay** open during the day? Give your answer in **hours and minutes**.



c. <u>Underline</u> the correct answer.

The shop closes at (quarter to seven, quarter past seven, half past seven) in the evening.

d. How long does the shop stay open **from Monday to Friday**? Give your answer in **hours and minutes**.

You can show your working here.			
		hours _	minutes

12. Fill in the boxes below with these cards.





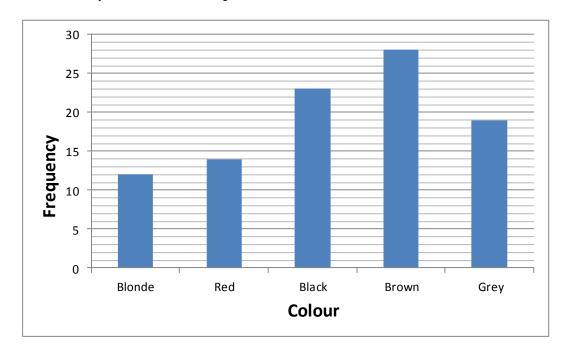


Note: Each card can be used more than once.

c.
$$2.5$$
 litres 450 $m\ell = 2.05$ litres

You can show your working here.

13. The bar chart below shows the hair colour of a group of women who take part in a survey.

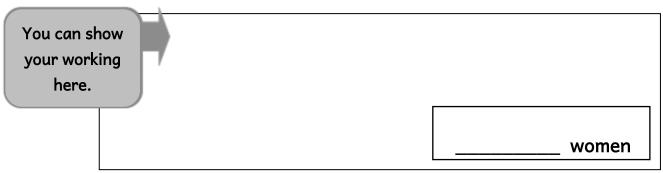


- a. Which is the most common hair colour?

b. How many women have red hair?

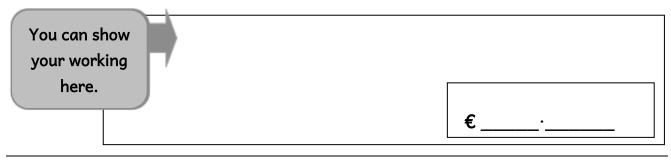
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c. How many women, in total, take part in the survey?



d. For taking part in the survey, each woman receives a hairband. Each hairband costs **50cent**.

What is the total cost of the hairbands?



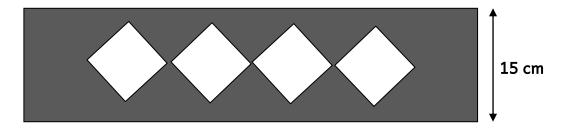
	into the container .	Coffee	COFFEE
a.	What is the new weight of the coffee in th Give your answer in grams .	e container?	E
	You can show your working here.		
		gram	s
	He then packs the coffee into packets. Each packet contains 250 grams. How many packets does he pack? You can show your working here.		
		packets	
ii.	The shopkeeper sells each packet at €3 . How much does the shopkeeper get after s	selling all the packets?	
	You can show your working here.		
		€	
Ma [.]	athematics – Written Paper – End of Primary Benchmark	- 2015 Page 13 o	 f 15

A shopkeeper then pours 5 bags of coffee, each weighing 1.7 kg

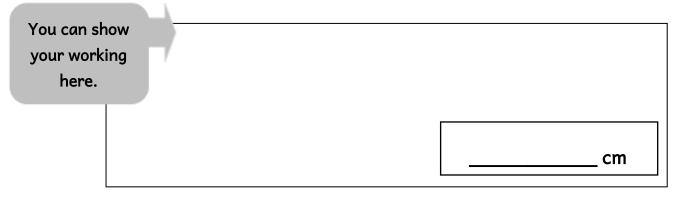
14. There is **500 g of coffee** in a container.

15. The diagram below is made up of a rectangle and four equal squares.

The breadth of the rectangle is $\frac{1}{4}$ that of its length.



a. Work out the **length of the rectangle**.



b. Work out the perimeter of the rectangle.

You can show your working here.				
			cm	

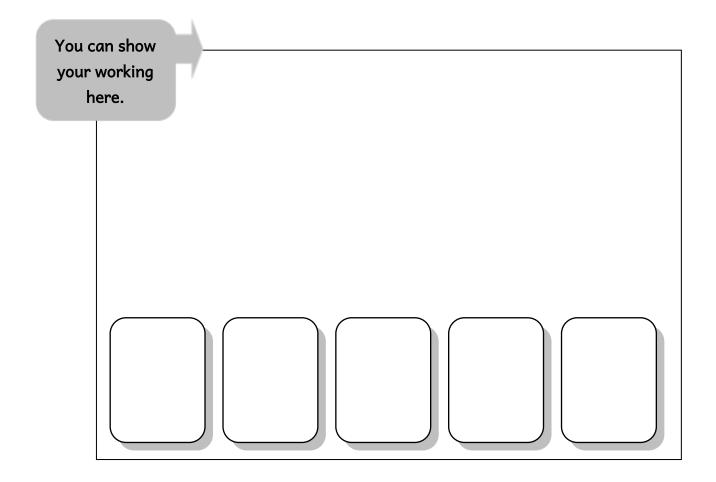
c. The total area of the four squares is 144 cm². What is the length of each side of the squares?

You can show your working here.				
	,		c	m

16. Jade has a pack of cards numbered 1 to 20.

- Jade chooses five different number cards.
- Two of the five numbers are square numbers.
- Two of the five numbers are multiples of seven.
- Four out of the five numbers are even.
- The sum of the five numbers is less than 45.

Which 5 number cards does Jade choose?



END OF PAPER Marks Scheme 20 marks **Mental Paper** 1 - 20 20 × 1 mark Nos. Written Paper Nos. 1 - 4 4 × 4 marks 16 marks 5 - 12 8 × 5 marks 40 marks 13 - 16 4×6 marks 24 marks 100 marks **TOTAL**