END OF PRIMARY BENCHMARK 2014

MATHEMATICS WRITTEN PAPER

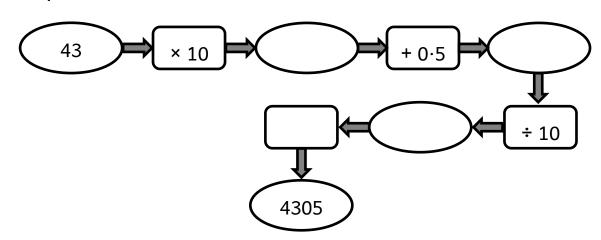
80 marks

1 hour 30 minutes

WRITTEN PAPER

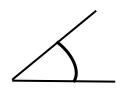
1. Work out:

2. Complete:

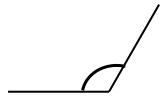


3a. Tick (\checkmark) the correct name for each of the marked angles below.

i)



ii)



acute angle

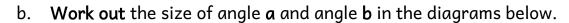
right angle

obtuse angle

acute angle

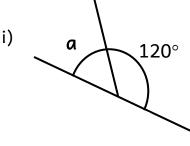
right angle

obtuse angle

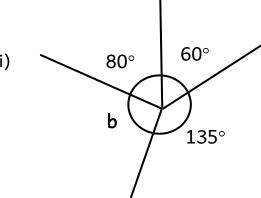


Do not measure.

i)



ii)



angle **a**

				(О	
=	_		_			

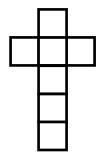
angle b =

		()	

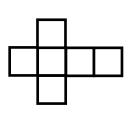
4. Below there are four nets of shapes.

Tick (\checkmark) the nets which form a cube.

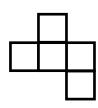
There is more than one answer.



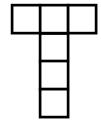
Net A



Net B

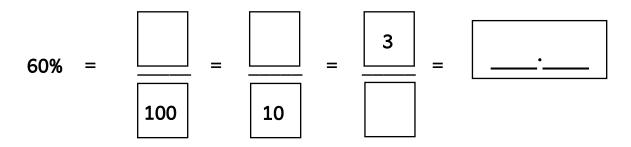


Net C



Net D

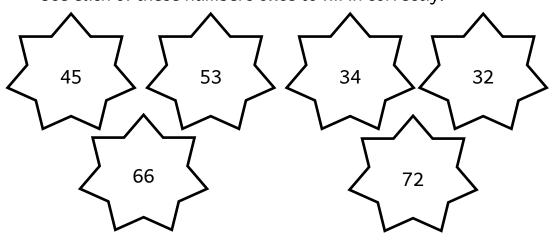
5a. **Fill in** correctly.



b. Shade 60% of the grid below.

6. Look at the numbers below.

Use each of these numbers once to fill in correctly.



is a **common multiple** of

9 and 8

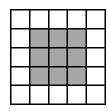
7. Use the calculation below to work out the missing numbers.

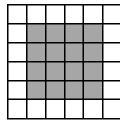
8. The shapes below are made up of white tiles and shaded tiles.





Shape 2





Shape 1

Shape 3

Shape 4

a. Complete the following table.

Shape number	1	2	3	4	5	9
Number of white tiles	8	12				
Number of shaded tiles	1	4				

b. Which **shape number** will have 48 **white tiles**?

shape number _____

9a. You have these four cards. Use **two** of them to complete the statements below. 10·01 m 1001 m 1.01 m 1001 cm 101 cm is equal to i) ii) divided by 100 is equal to 10.01 m. Three pencils have the same length as the width of four notebooks. b. Each notebook is 12.6 cm wide. notebook notebook notebook 12.6 cm Work out, in cm, the total length of the three pencils. i) cm Work out, in mm, the length of one pencil. ii)

mm

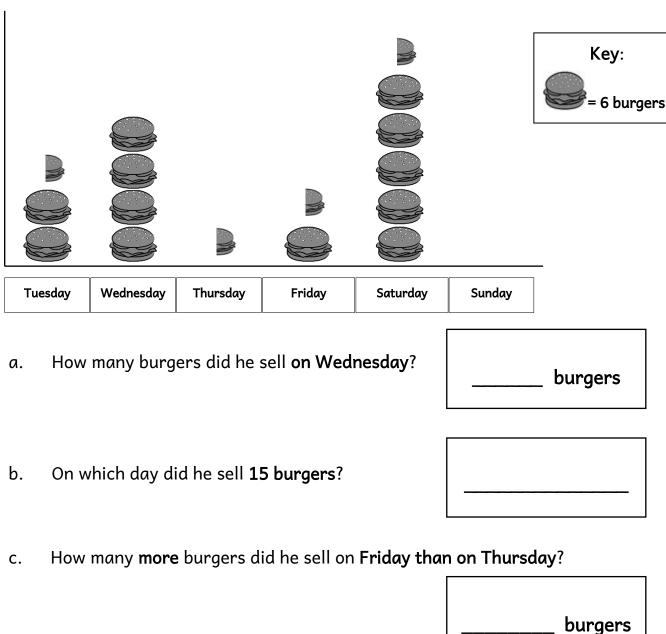
The following are the prices of items at a supermarket. 10. cheese ham olives milk €1.64 for €1.82 for 82 cent 47 cent 100 g for 100 g 100 g each carton Alex buys 200 g of ham and 150 g of cheese. a. What is the total cost of the ham and cheese that Alex buys? b. He also buys some olives for €2.46. How many **grams** of **olives** does he buy? grams Alex pays for the ham, cheese and olives with a €10 note. c. He then remembers that he needs to buy milk. How many cartons of milk can he buy with the change received? cartons

	During the students' council elections they vote of	as follows:
	 10% vote for Tom 2/5 vote for Sue 20% vote for Pete the rest vote for Ann 	SCHOOL ELECTION
a.	How many votes does Sue get ?	
b.	How many votes does Sue get more than Tom ?	votes
c.	What percentage of all the votes does Ann get?	votes
		%
d.	Who wins this election? Tick (✓) the correct answer. Tom Sue Pete	Ann

There are **1250 students** in a school.

11.

Max sells burgers in a kiosk.
 These are the burgers he sold last week from Tuesday to Sunday.



- d. On Sunday, Max sold **9 burgers more than he did on Saturday**. **Complete the pictograph** to show how many burgers he sold on Sunday.
- e. Each burger costs €1.How much money did Max get from the burgers he sold last week?

€_____

- 13. **Five women** check their weight.
- a. The table below shows their weight.

Katie	Maria	Bernice	Grace	Emma
75 kg	65 kg	72 kg	58 kg	70 kg

Work out the average weight of the five women.

b. Months later they check their weight again.
 The average weight of the five women increases to 71 kg.

Katie	Maria	Bernice	Grace	Emma
4·5 kg more	62 kg	76∙8 kg	61∙6 kg	?

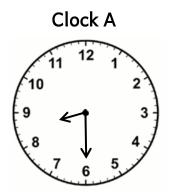
i) What is Katie's new weight?

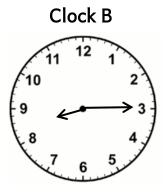
	k	9	

ii) Work out Emma's new weight.

kg	 g
 •	•

14. Look at these two clocks.





a. They should show the **same time**, but **Clock A** is **5 minutes fast** and **Clock B** is **10 minutes slow**.

What is the **correct time**?

Give your answer in **digital form**.

 :	

bi) Jacob spends 6 hours at school every day.

What **fraction** is this of the **whole day**?

Write your answer in its simplest form.

- ii) Jacob **starts** his homework at **20 minutes to 4** in the **afternoon**.
 - He spends half an hour on Maths.
 - He stops for 10 minutes for a snack and another 15 minutes to call a friend.
 - Then he continues his homework for another 25 minutes.

At what time does he **finish** his homework?

Give your answer in 24-hour clock time.

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	The fish pond is 90 cm long and 90 cm wid	le.		
a.	What is the area of the fish pond ?			
			cm ²	
b.	Ana decides to put tiles around her fish pond.			
	She places four square tiles and four rectangular tiles around the fish pond. The square tiles cost €4.25 each and the rectangular tiles cost €6.50 each.		Fish Pond 90 cm × 90 cm	
i)	Work out the total cost of the tiles.	<		30 cm
			€	
ii)	Ana's friend thinks that it costs less to us the fish pond. Do you agree with Ana's fr	_		ound

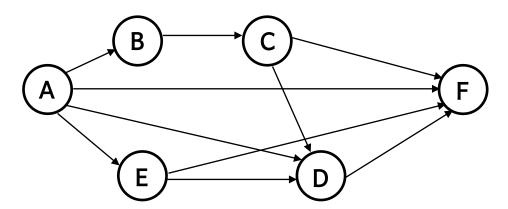
15. Ana has a fish pond.

16. Six villages A, B, C, D, E and F are connected by bus routes.

The direction the bus takes is marked with an arrow.

Isaac wants to go from village A to village F by bus.

Isaac can take different routes.



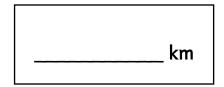
a. How many different bus routes are there from village A to village F?

routes

b. The table below shows the distance for each direct route.

A to B	A to D	A to E	A to F	B to C	C to D	C to F	D to F	E to D	E to F
1·45 km	6·4 km	2·14 km	9·7 km	2·1 km	2·48 km	4·11 km	3·4 km	3·45 km	7·56 km

How long, in km, is the shortest route from village A to village F?



END OF PAPER						
Marking Scheme						
Mental Paper	Numbers	1 - 20	20 × 1 mark	=	20 marks	
Written Paper	Numbers	1 - 4	4 × 4 marks	=	16 marks	
		5 - 12	8 × 5 marks	=	40 marks	
		13 - 16	4 × 6 marks	=	24 marks	
			TOTAL		100 marks	