# END OF PRIMARY BENCHMARK

2014

# MATHEMATICS

# WRITTEN PAPER

80 marks

1 hour 30 minutes

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2. Complete:







Work out the size of angle **a** and angle **b** in the diagrams below. b. Do not measure.



Below there are four nets of shapes. 4. Tick ( $\checkmark$ ) the nets which form a cube.

There is more than one answer.



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Look at the numbers below.
 Use each of these numbers once to fill in correctly.





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









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 \_\_\_\_\_



b. Three pencils have the same length as the width of four notebooks. Each notebook is 12.6 cm wide.



i) Work out, **in cm**, the total length of the **three pencils**.



ii) Work out, in mm, the length of one pencil.





a. Alex buys 200 g of ham and 150 g of cheese.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	

c. Alex pays for the ham, cheese and olives with a €10 note.
He then remembers that he needs to buy milk.
How many cartons of milk can he buy with the change received?

 	cartons

- 11. There are **1250 students** in a school. During the students' council elections they vote as follows:
  - 10% vote for Tom •
  - $\frac{2}{5}$  vote for Sue
  - 20% vote for Pete
  - the rest vote for Ann
- How many votes does **Sue get**? a.

b. How many votes does Sue get more than Tom?

What **percentage** of all the votes does **Ann** get? c.

d. Who **wins** this election? Tick ( $\checkmark$ ) the correct answer.











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12. Max The	sells burge se are the b	ers in a kios ourgers he	sk. sold last we	ek from Tue	esday to Su	no na
						Ke = 6 burgers
Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
a. How	many burg	ers did he	sell <b>on Wed</b>	nesday?		_ burgers
b. On w	vhich day di	id he sell <b>1</b> !	5 burgers?			

c. How many **more** burgers did he sell on **Friday than on Thursday**?

- 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?

€_	

burgers

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

<b>Five wome</b> The table b	n check their v elow shows th	weight. neir weight.		StudentBour
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	?

What is Katie's new weight? i)



Work out Emma's new weight. ii)



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**.



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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.



- 15. Ana has a fish pond.The fish pond is **90 cm long** and **90 cm wide**.
- a. What is the **area** of the **fish pond**?



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.



i) Work out the **total cost** of the tiles.



 Ana's friend thinks that it costs less to use square tiles all the way around the fish pond. Do you agree with Ana's friend? Explain. 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
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### 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 O	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

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