Name:	
Examination Number:	
Room Number	

WITHINGTON GIRLS' SCHOOL

ENTRANCE EXAMINATION 2013

MATHEMATICS

Paper 1

TIME: 30 MINUTES

- Try to answer all the questions.
- Write your working and your answer in the space provided after each question.
- If you cannot answer a question, leave it and go on to the next one.
- Use any time you have left to check your answers and go back to any questions you have left out.

CALCULATORS MUST NOT BE USED

PAPER 1 TOTAL	
Marker's	
Initials	
Checker's	
Initials	

<u>Section A</u> 1. Work out 583 + 658	2. Work out 345 – 167	Do not write in this margin
1. WOIK Out 303 + 030	2. Work out 545 – 107	1
		1
		1
Answer:	Answer:	
3. Work out 36×24	4. Work out 392 ÷ 7	<u> </u>
		1
		1
	Anguari	
Answer:	Answer:	_
5. Work out $63 \cdot 2 \div 200$	6. Work out 44 + 12 + 13 + 37 + 26	1
		1
Answer:	Answer:	1
7. Write down the next two numbers in this	s sequence	-
19, 15, 11, 7,		1
	Answer: and	
Laura's rabbit eats 14 carrots each wee to feed her rabbit for 30 weeks?	ek. How many carrots would Laura need to buy	
		1
	Answer:	
9. In the space below write these numbers		+
	-8 3 −5	
0 -2 4	-8 3 -5	1
10. Manchester Arena can seat 17 643 peo		+
Round this number to the nearest 1000		1
	Answer:	
Page 2		

Section B In this section any fractions should be writt	ten in their simplest form.	Do no write in this margin
For example, $\frac{1}{4}$ is simpler than $\frac{2}{8}$ and the m		
1. Work out $2\frac{2}{3} + \frac{2}{3}$	2. Work out $8\frac{1}{2} - 1\frac{3}{4}$	1
		1
Answer:	Answer:	
3. Write $\frac{24}{56}$ in its simplest form	4. Work out $\frac{4}{7}$ of 63	1
Answer:	Answer:	1
5. What is $5\frac{3}{4} \div \frac{1}{4}$?	<u> </u>	
7 7		1
	Answer:	
6. In the space below write the following	ng numbers from smallest to larges	t:
$\frac{3}{4} \qquad 0.705 \qquad 0$	$\cdot 755 \qquad \frac{4}{5} \qquad 0 \cdot 7505$	1
7. 20% of the girls in class 7W wear gl of them wear glasses?	lasses. There are 25 girls in the cla	ass. How many
	Answer:	
8. A jug contains $750 ml$ of orange juice $200 ml$ and Anna drank $120 ml$. How	_	oigail drank
		1
	Answer:	ml
9. Nell and Joe shared some sweets in sweets were there altogether?	n the ratio 4:5. Nell received 24 sw	eets. How many
	Answer:	
10. What is $200 \times \frac{7}{1000}$?		1
	Answer:	
PI.E.A	ASE TURN OVER	Page 3

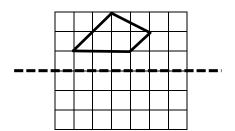
	1.	Section C How many centimetres are there in 212-4 metres?	Do not write in this margin
			1
		Answer:cm	
	2.	Which number is halfway between 2-6 and 4-8?	
			1
		Answer:	
	3.	Work out 8-3 + 17-8.	
			1
		Answer:	
	4.	I can write 70 as the product of three prime numbers: $70 = 2 \times 5 \times 7$ Write 110 as the product of three prime numbers.	1
		Answer: 110 =××	1
	5.	Work out 30 x 21-4.	
		Answer:	1
	6.	A rectangular garden is 16-8 metres long and 11-2 metres wide. Calculate its perimeter.	
		Answer: m	1
	7.	A television programme starts at 19:35 and finishes at 22:10. How long does it last in hours and minutes?	_
			1
		Answer:hoursminutes	
	8.	The temperature at midnight on Friday was -5° C and at midday on Saturday was 17°C. What was the overall temperature change?	
			1
		Answer:°C	_
	9.	What is the smallest number which is a multiple of 12 and 15?	
			1
	10	Party poppore are sold in bags of 12. Appa and Alfred bought just one up bags of	
	10	Party poppers are sold in bags of 12. Anna and Alfred bought just enough bags of poppers so that all 153 guests at their birthday party could have one. How many poppers were left in the last bag?	
			1
		Answer:	
_			

	Section D For each of these statements write down the number that n stands for.		Do no write in this margin
	1. <i>n</i> is the number of millilitres in 2-5 litres.		
	Answer:	ml	1
	2. \boldsymbol{n} is the answer to $525 \div 25$.		
			1
	Answer:		_
	$\mathbf{c.} \mathbf{n} = \mathbf{n} =$		1
	Answer:		
	4. n is the length of a rectangle, with a width of 6 cm and a perimeter of 30 cm.		
	A		1
	Answer:5. n is the answer to 5×4^2 .	cm	_
	Answer:		1
	6. <i>n</i> is the area of a square with a perimeter of 36 cm.		
	Answer:	cm ²	1
	7. <i>n</i> is the next number in this sequence:		_
	18, -16, 19, -15, 20,		1
	Answer:8. n is the number for which $32 \div n = n \div 2$.		_ 1
	6. n is the number for which $32 \div n = n \div 2$.		
	Answer:		1
	9. n is the number for which $2 \times n \times 7 = 42$.		
			1
	Answer:		-
	2 3.13 1.		
-	Answer:		1
		Page 5	

Section E

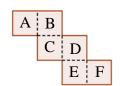
1. Complete the shape so that the broken line is a line of symmetry.





1

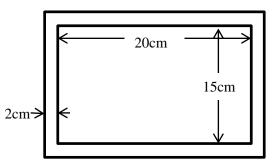
2. When the net shown is folded into a cube, which face would be on the opposite side of the cube to face A?



1

Answer:

3. The diagram shows a picture that has been framed. If the picture measures 20 cm by 15 cm and the width of the frame is 2 cm. Find the perimeter of the outside edge of the frame.

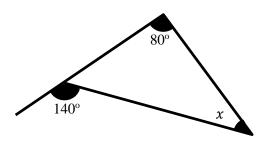


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Answer:

om

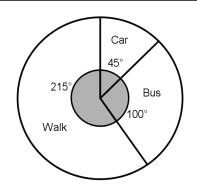
4. Work out the size of the angle marked *x* in this triangle.



Answer:

1

5.



720 people were asked how they usually travel to school.

The results are shown on the pie chart.

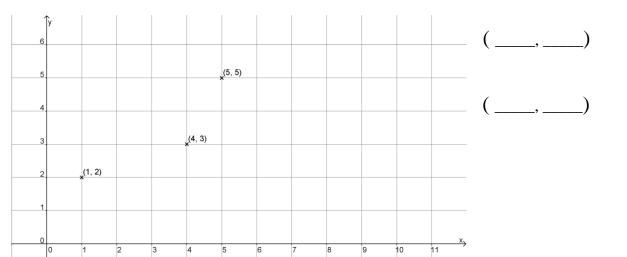
How many people travel to school by car?

Answer:

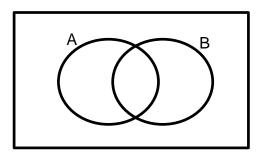
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1



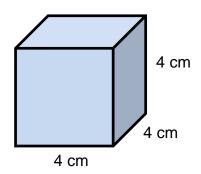
7. Set A = multiples of 2
Set B = multiples of 3
Add the numbers 7 and 15 to the Venn diagram.



1

1

8. I have some 1 cm cubes made out of wood which I have used to build the cube shown opposite. How many 1 cm cubes cannot be seen from the outside?



1

Answer: _____