GCSE

Mathematics: Non Calculator Paper 4

Specification EDEXCEL A

Maria		
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Time allowed

- 30 minutes.

For this paper you must have

- A ballpoint pen with black ink.
- A ruler with millimetre measurements.

Instructions

- Do all rough work in this question booklet.
- Answer **all** the questions.
- You **must** show your working for all questions.

The maximum mark for this paper is 40.

Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
TOTAL	

Grade Bo	oundaries
A*	34
А	29
В	23
C	16
D	10

1. Complete the table to show the equivalent numbers, fractions and percentages. The first column has been done for you.

Number	0.5	0.05		
Percentage	50%			
Fraction	$\frac{1}{2}$		$\frac{1}{50}$	(4 marks

2. The graph shows the relationship between the number of ice-creams sold in a day and the price each ice-cream was sold for.



3. Evaluate				
(a)	14 × 23		
			(2 marks)	
(b)	$\frac{3^2 - 7(-5)}{4}$		
		4		
	c)	((2)) 1	(2 marks)	
	C)	$\left(\frac{O}{6^3}\right)^{\overline{6}}$		
			(2 marks)	
4.		Given that $y = \frac{2}{x} - 5$.		
(a)	Calculate the value of v given that $x = 5$.		
,				
		X	2 =	
(b)	Calculate the value of x given that $y = 3$.	(2 marks)	
		X	:=	
			Turn over for Question 5 ►	

3

5. The r	net of a 3D shape is given below.	
(a)	Name the 3D object the net can be used to make.	
(b) (i)	The surface area of the 3D object is 54cm ² . Use this information to calculate the length of <i>x</i> .	(1 mark)
(ii)	x = Hence, work out the volume of the 3D object.	(3 marks)
		(1 mark)

c	Cimal	1:6.	
0.	sinipi (a)	шу л Х л + л	
,	(d)	$n \wedge n \neq n$	
			(1 mark)
((b)	$\frac{x^2 - x - 6}{x - 3}$	
		x 5	
			(3 marks)
7	lt tok	as 2 minutas for a car to travel 2400 metros along a road	
/.	You n	nay assume that the car travels at a constant speed.	
((a)	Show that the speed of the car is 20 metres per second.	
			(2 marks)
	(h)	The speed limit on the road is 60 kilometres per hour	
,	(0)	Is the car breaking the speed limit?	
			(2 marks)
		Turn over for	Question 8 🕨

a)	Write down the gradient of line <i>a</i> .	
	Gradient	(1 mark
b)	Given that line a passes through the point (3, 4), show that the value of c is -2.	- 1 /
		(1 mark
(c)	Line <i>b</i> has a gradient of 6 and crosses the y-axis at -4. Calculate the coordinates of the point of intersection of line <i>a</i> and line <i>b</i> .	
	Coordinates of interception (,	(A marke

Complete the table by putting ticks in the correct boxes to show whether each expression given can be used to work out a length, area or volume.

	12 <i>x</i>	(x + 6)(x - 1)	3x(x + 2)
Length			
Area			
Volume			

(3 marks)

END OF QUESTIONS

9.

