Bronze Level

Question Paper 2

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Difficulty Level	Bronze
Booklet	Question Paper 2

Time Allowed: 60 minutes

Score: /50

Percentage: /100

Grade Boundaries:

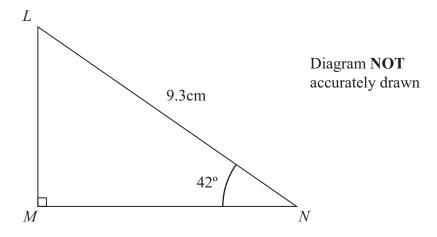
9	8	7	6	5	4	3	2	1
>95%	85%	75%	65%	55%	45%	35%	25%	<25%

1	(a) Simplify		
	(i) $a \times a \times a \times a$,		
	('') 5(I		
	(ii) $5a \times 6b$,		
	(iii) $q^8 \div q^2$.		
			(3)
	(b) Solve $5 - 2y = 12$		
		v =	
		J	(2)
	(c) $v = w^2 - 2w$.		
	Work out the value of v when $w = 6$		

2	Use compasses and a ruler only to construct the perpendicular bisector of the line You must show all construction lines.	PQ.
	P	Q

2	The length of a fence is 137 metres, correct to the nearest metre.	
3		
	Write down	
	(i) the lower bound for the length of the fence,	
	metres	į
	(ii) the upper bound for the length of the fence.	
	metres	
_	(Total for Question 3 is 2 marks)	
1	Express 126 as a product of its prime factors.	

5



Calculate the length of *LM*. Give your answer correct to 3 significant figures.

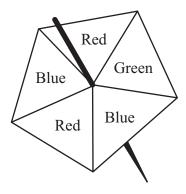
	cm

(Total for Question 5 is 3 marks)

6

	(Total for Question 6 is 5 marks)	
	(Total for Question 6 is 5 marks)	
	(3)	1111111011
		million
Give your answer correct to the hearest million.		
(b) Increase 32 million by 4%. Give your answer correct to the nearest million.		
Between January 2007 and January 2009 the population	n of Canada increased by 4%.	
D / 1 2007 11 2000 1		
	(2)	%
Give your answer correct to 1 decimal place.		
(a) Express 7 million as a percentage of 32 million. Give your answer correct to 1 decimal place.		
7 million of these Canadian people spoke French as the	rir first language.	
In January 2007 the population of Canada was 32 milli		

7 Here is a fair 5-sided spinner.



Hans spins the spinner 30 times.

Work out an estimate for the number of times the spinner lands on Red.

(Total for Question 7 is 2 marks)

8

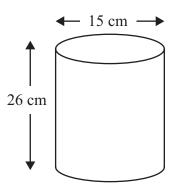


Diagram **NOT** accurately drawn

A cylinder has a diameter of 15 cm and a height of 26 cm.

Work out the volume of the cylinder.

Give your answer correct to 3 significant figures.

......cm³

9 The lengths of the sides of a rhombus are 6 cm. The length of the longer diagonal of the rhombus is 10 cm. *AB* is a side of the rhombus.

Construct an accurate, full-size drawing of the rhombus. You must show all construction lines.

1		D
A		D
	6 cm	

10 (a) Factorise $5a - 3a^2$

(2)

(b) Expand

(i)
$$2(4-3w)$$

.....

(ii)
$$y^2 (y + 10)$$

(3)

(c)
$$W = \frac{5.6a}{b^2}$$

 $a = 1.28$ $b = 0.8$

Work out the value of W.

$$W =$$
 (2)

(Total for Question 10 is 7 marks)

11	G = F = F	= {Students in Year 12} {Students who study German} {Students who study French} = {Students who study Maths}	
	(i)	$G \cap M = \emptyset$	
		Use this information to write a statement about the students who study German in Year 12	
	(ii)	Preety is a student in Year 12 Preety $\notin F$.	
		Use this information to write a statement about Preety.	
			(2)
	$A \cap$	$\{2, 4, 6, 8, 10\}$ $B = \{2, 4\}$ $B = \{1, 2, 3, 4, 6, 8, 10\}$	
	List	all the members of set B .	

(2)

(Total for Question 11 is 4 marks)

12 The table shows information about the numbers of text messages sent by 40 teenagers in one day.

Number of text messages	Number of teenagers	Mid-interval value	
0 to 2	3	1	
3 to 5	6	4	
6 to 8	10		
9 to 11	15		
12 to 14	5		
15 to 17	1		

	3 to 5	6	4		
	6 to 8	10			
	9 to 11	15			
	12 to 14	5			
	15 to 17	1			
(a) Wri	te down the mod	al class.			
				(1)	
(b) (i)	Work out an est in one day.	imate for the mean numb	ber of texts sent by the 4	0 teenagers	
(ii)	Explain why yo	ur answer to part (b)(i) i	s an estimate.		
					(5)

