GUYANA MINISTRY OF EDUCATION NATIONAL GRADE SIX ASSESSMENT 2010 MATHEMATICS PAPER 1

TIME: 1 hour 10 minutes

READ THESE INSTRUCTIONS CAREFULLY BEFORE YOU ATTEMPT TO ANSWER THE QUESTIONS.

- 1. WRITE YOUR CANDIDATE NUMBER ON THE ANSWER SHEET AND UNDERLINE THE SUBJECT.
- 2. This test contains 40 questions. You are required to answer ALL questions. Four responses are given for each question. The responses are A, B, C and D. Only ONE response is correct.
- 3. If you are not sure of the answer to a question, then choose the one which you think is **BEST**. On your answer sheet, draw a heavy black line through the letter you have chosen.
- 4. BE SURE THAT THE QUESTION NUMBER IN THE BOOKLET IS THE SAME AS THE ONE YOU HAVE USED ON YOUR ANSWER SHEET.

Here is an example done for you.

1

-	The sum of 4 and 5 is				ANSWER SHEET				
	(A)	1	(B)	9	1.	Α		С	D
	(C)	20	(D)	45					

A heavy black line has been drawn through the letter **B** on the answer sheet because **9**, the correct answer, is next to **B**.

- 5. If you make a mistake, erase the line cleanly, then draw a heavy black line through the letter next to the answer you have now chosen.
- 6. **REMEMBER**, each answer **MUST** only be shown by a heavy black line on your **Answer Sheet**.
- 7. Remember only one answer must be provided for each question.
- 8. DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

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1.	What	t is the value of the underlin	ed digit	in 88	<u>8</u> 88
	(A)	8 000		(B)	800
	(C)	80		(D)	8
2.	Whic	h is a prime number?			
	(A)	7		(B)	9
	(C)	15		(D)	21
3.	Whic	h is a Roman Numeral?			
	(A)	*		(B)	
	(C)	.9		(D)	X . 35 60
4.	Angle	es are measured in			
	(A)	litres. a literation of the second		(B)	squares.
	(C)	degrees.		(D)	grams.
		로 소설했는 데도 "한국방 왕은 다양로 11 11 전망 프로젝트스트 - 스토론 인터			승규가 있는 것이 있는 것이 있는 것이 있다. 같은 것은 것이 있는 것이 같이 있는 것이 같이 있는 것이 있
5.	A mu	Itiple of 12 is			
	(A)	1		(B)	2
	(C)	21		(D) ੋ	24
6.	Whic	h is an acute angle?			
	(A)			(B)	\mathcal{P}^{-}
	(C)	a na provinski stanov Na v ostala na provinski stanov Na v ostala na provinski stanov		(D)	
7.	Whic	h of the following is a triang	ular bas	se pyra	amid?
	(A)	\bigwedge		(B)	6
	(C)	A		(D)	

2

V

8.	Which set is equal to donkeys that can fly?						
	(A)	{ }	(B)	{bat}			
	(C)	{eagle}	(D)) {flying fish}			
9.	A su	bset of {A, B, C} i	S				
	(A)	{A, C, D}	(B)	{B, C, A}			
	(C)	{B, A, E}	(D)) {C, A, G}			
		181					
10.	Which one of the following represents a ratio relationship?						
	(A)	8 ÷ 5	(B)	8:5			
	(C)	85%	(D) ^{s thousan theory}) 8.5			

Use Figure 1 below to answer question 11.



- 11. The formula for finding the perimeter for the regular pentagon in figure 1 is
 - (A) 2s
 (B) 3s

 (C) 4s
 (D) 5s





Use	Figur	e 2 below to answer qu	estion 13.	
		neit gen de		
			Figure 2	Al an and a
13.	How	many edges are in the cut	oid above?	
	(A)	4	(B)	8
	(C)	12	(D)	16
			sonoon griwor	
14.	One	(a) million five hundred thous	sand two can b	e written as
	(A)	15 500 002	(B)	1 502 000
	(C)	1 500 020	(D)	1 500 002
		tice the		
15.	32.28	3 ÷ 100 is		
	(A)	0.3228	(B)	3.228
	(C)	32.28	(D)	322.8
16.	Whic	h of the following is equal t	o 90 450?	
	(A)	900 + 400 + 50	(B)	9000 + 400 + 50
	(C)	90 000 + 400 + 50	(D)	90 000 + 4000 + 50
	2	4		
17.	$\frac{-}{3}$ ×	$\frac{1}{7}$ =		
	(A)	$\frac{6}{10}$	(B)	$\frac{18}{14}$
	(C)	$\frac{8}{10}$	(D)	$\frac{8}{21}$

Which digits will complete the quotient in the division sum below? 18.

	7		
	8) 5679		
	-56		
	07		
(A)	709		
(C)	97		

(D) 09 97

(B)

097



20.	6.579 m express in centimetres is					
	(A)	0.6579	(B)	65.79		
	(C)	657.9	(D)	6579		

Use Figure 3 below to answer question 21.

21.



Figure 3

15

- The perimeter of the shape in Figure 3 is (A) 10 (B) (C) 26 **(D**)
- How many whole numbers are in the set of numbers greater than 104 but less 22. than 110?
 - (A) 3 **(B)** 4 (C) 5 (D) 6
 - 5

Study the Venn diagram in Figure 4, then answer question 23.



7

23. Which element is in neither A nor B? (A) \wedge (B)

(A)	\sum	(B)	
(C)		(D)	\bigcirc

24.	425%	425% expressed as a decimal is			
	(A)	4.25		(B)	42.5
	(C)	425		(D)	0.425

Use the pictograph for Questions 25 and 26.

 Number of Books Read				
Mystery				
Biography				
 Animal Stories				
 History				

Each 🕮 stands for 5 books.

25. How many more mysteries than animal stories were read?

(A)	2	(B)	5	
(C)	10	(D)	15	

26. How many more history books need to be read to equal the number of biographies read?

(A)	5	(B)	10
(C)	20	(D)	25

27. Look at the number pattern below. What is the next number likely to be? 72, 63, 54, 45, _____

(A)	36	(B)	27
(C)	18	(D)	9

28. Roy arrived at school sports at 10:30 hours and spent 3 hours 45 minutes. At what time did he leave?

(A)	14:45 hours	(B)	14:15 hours
(C)	10:45 hours	(D)	10:30 hours

29. The smallest number that can be divided by 6, 9 and 12 and leaving a remainder of 1 is

(A)	28.		(B)	36.
(C)	73.		(D)	145.

Use Figure 5 below to answer question 30.



30.

What fraction of the whole shape in Figure 5 is shaded?



31. The volume of a box = area of base \times height. If the volume of a box is 400 cm³ and the area of the base is 40 cm², what is the height in cm of the box?

(A)	10	(B)	40
(C)	400	(D)	16 000

32. If 900 is increased by 30%, then the new number would be

(A)	270	(B)	630
(C)	1170	(D)	90 030

Use the diagram below to answer question 33.



Figure 6

33. In the isosceles triangle above, the base angles are 72° each. What is the size of the third angle?

(A)	36 °	(B)	7 2 °
(C)	144°	(D)	180°

Use Figure 7 below to answer question 34.

4			H
1	_	/	']

Figure 7

34. The diagram in Figure 7 represents a piece of pipe. The radius of the outer circle of the pipe is10.5 cm and the radius of the inner circle is 5.4 cm. What is the thickness of the pipe?

(A)	4.1 cm	(B)	5.1 cm
(C)	15.4 cm	(D)	15.9 cm

Use the Venn diagram in Figure 8 to answer questions 35 and 36.

In the Venn diagram below:

Set A has 15 girls with long hair

Set B has 18 girls with blue ribbon

6 girls have neither long hair nor blue ribbon



Figure 8

- 35. Set A intersect set B can be described as all girls with
 - (A) neither long hair nor blue ribbons.
 - (B) long hair and blue ribbons.
 - (C) with ribbons.
 - (D) long hair.

36. How many girls have neither long hair nor blue ribbon?

(A)	10		(B)	8
(C)	6		(D)	5

- 37. Lisa shared 120 stickers with her two sisters in the ratio 4:3:1. How many stickers make up the largest share?
 - (A) 128 (B) 60
 - (C) 45 (D) 15



38. The marked price for the dress above was \$13 000. If 16% VAT is calculated on the marked price, what amount was paid for the dress?

(A)	\$208	(B)	\$2080
(C)	\$11 920	(D)	\$15 080

Use the graph below to answer questions 39 and 40.



39. Amelia picks and then sells vegetables from her garden at a roadside stand. How many cabbages were sold?

A)	6	(B)	8
C)	10	(D)	12

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40. How many more pumpkins than squash did Amelia sell?

(A)	9	(B)	10
(C)	11	(D)	12

END OF TEST

CANDIDATE NUMBER:

GUYANA MINISTRY OF EDUCATION NATIONAL GRADE SIX ASSESSMENT 2010

MATHEMATICS PAPER II

Reading Time: 10 minutes

Writing Time: 45 minutes

READ THESE INSTRUCTIONS CAREFULLY BEFORE YOU ATTEMPT TO ANSWER THE QUESTIONS.

- 1. WRITE YOUR CANDIDATE NUMBER CLEARLY ON EACH PAGE.
- 2. This paper contains **SIX** questions. You are required to answer **QUESTION** ONE and **THREE** others. **EACH** question is worth **5** marks.

Be sure to answer FULLY the FOUR questions.

- 3. Write your answer in the space provided in the booklet.
- 4. Drawings and handwriting **MUST** be clear at **ALL TIMES.**
- 5. Each step of your work **MUST** be **CLEARLY** shown in the booklet.
- 6. If you have to erase, do so cleanly.
- 7. Look over your work when you have finished.
- 8. DO NOT take away ANY part of this booklet.

DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

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CANDIDATE NUMBER: Question one is compulsory

1. (a) $4\frac{1}{5} + \frac{1}{3} - 1\frac{2}{6}$

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a substant of any start of another of the second of an and the second starts

(2 marks)

(b) $(7.2 + 5) \times 0.6$

그 전자는 것으로 넣는 것 가지 않아? 것, 바람이 가지 않아요. 그는 그 나는 것 같아.

지방 영화 가장 가지 않는 것이 있는 것

alaban wasan ing Malayer ang Saya Sarah

(3 marks)

CANDIDATE NUMBER:

175.31

2.

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2

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(a)

After travelling 60 km, a motorist still had 50% of the journey to travel. What was the total length of the journey?

(2 marks)

(b) If the motorist took 3 hours for the whole journey, calculate his average speed.

CANDIDATE NUMBER:

	nie of the sources	
Children	Mass in kg	
Sunita	50	
Sean	38	1
Ruel	26	
Jermey	40	
Nancy	35	

Use the Table below to answer question 3. Survey Of parts a media

3. (a) What is the difference in mass, between Sunita and Nancy? (1 mark)

(b) Between which **two** children is there the smallest difference in mass? (1 mark)

A PARK

(c) Which two children will give a total of 85 kg? (1 mark)

(d) (i) Between which two children is there the greatest difference in mass?

(ii) What is the difference in their mass?

(2 marks)

CANDIDATE NUMBER:



The graph below shows how Pat spends her weekly wages. Use it to answer question 5.



(b) How much does she spend on food / clothing and entertainment altogether?

(1 mark)

(1 mark)

(c) What is Pat's weekly wage?

(2 marks)

(d) How much would Pat earn in two weeks?

CANDIDATE NUMBER:

The Venn diagram below shows the number of pupils in Grade 6 B who like chicken and fish. Study the information then answer question 6.



(a) How many pupils like chicken only?

6.

(1 mark)

(b) How many pupils like **both** chicken and fish?

(1 mark)

(c) How many pupils like neither chicken nor fish?

(1 mark)

(d) How many children are in Grade 6B?

(2 marks)

END OF TEST