## GUYANA MINISTRY OF EDUCATION NATIONAL GRADE SIX ASSESSMENT 2013

## 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, shade 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.					

Note: The letter **B** is shaded on the answer sheet because **9**, the correct answer, is next to **B**.

- 5. If you make a mistake, erase the shaded letter cleanly, then shade the letter next to the answer you have now chosen.
- 6. **REMEMBER**, each answer **MUST** only be shown by the shading on your **Answer Sheet**.
- 7. Remember only **ONE** answer must be provided for each question.

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

- 1. Which is an even number?
  - (A) 76 818

(B) 83 059

(C) 88 967

- (D) 99 701
- 2. What is the value of **6** in 25 673?
  - (A). 60

(B) 600

(C) 6000 ·

- (D) 60 000
- 3. Which shows the operation of division?
  - (A) Include 6 more objects
- (B) Decrease 15 by 6
- (C) Make 6 greater by 15

(D) Share 15 among 6

- 4. The sum of 10 and 407 is
  - (A) 470

(B) 417

(C) 397

(D) 307

Study Figure 1, then answer questions 5 and 6.

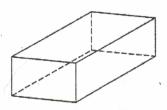


Figure 1

- 5. The figure is called a
  - (A) cube.

(B) cylinder.

(C) cuboid.

(D) sphere.

- 6. The figure has \_\_\_\_ sides.
  - (A) 4

(B) 5

(C) 6

7.	A cricketer who scores one run less than a century has made _	runs
1.	A choreter who scores one full less than a sentary has made _	

(A) 19

(B) 99

(C) 101

(D) 111

8. The unit used to measure the mass of heavy objects is

(A) degree

(B) kilogramme

(C) kilometre

(D) litre

9. Which is the symbol for 'not a member of'?

(A) ∈

(B) ∉

(C) n

(D) {}

10. Which pair are equal sets?

- (A) {3, 7, 10, 8}
- {6, 17, 13}
- (B) {6, 10, 12, 5}
- {60, 6, 10, 5}
- (C) {3, 6, 8, 7}
- {7, 3, 8, 6}
- (D) {6, 0, 10, 7}
- {5, 7, 0, 6}

11. Which fraction represents 1%?

(A)  $\frac{1}{10}$ 

(B)  $\frac{1}{100}$ 

(C)  $\frac{1}{1000}$ 

(D)  $\frac{1}{10000}$ 

Figure 2 shows the favourite fruits of children in Grade Six. Study it, then answer questions 12 and 13.

Bananas	关关关关关关关关关
Pineapples	关关关关关关关关关关关
Cherries	关关关关关关关关

Represents 1 child

Figure 2

(A) bar graph.

(B) line graph.

(C) pictograph.

(D) pie chart.

## 13. Which tally marks represent the number of children who like **pineapples and** cherries?

 (B) ++++++++++++1

(C) ##L##LII

(A) 7000

(B) 7009

(C) 7011

(D) 7090

(A) 90 + 700 + 4

(B) 900 + 70 + 4

(C) 9000 + 7 + 4

(D) 9000 + 70 + 4

(A) 0.751

(B) 1.751

(C) 1.851

(D) 1.811

17. 60.5 ÷ 100 =

(A) 60 500

(B) 6050

(C) 6.05

(D) 0.605

18. What is the **LCM** for 12, 18 and 24?

(A) 6

(B) 24

(C) 54

(D) 72

Study Figure 3, then answer question 19.

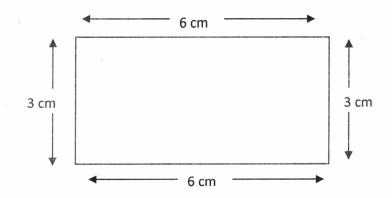


Figure 3

19. How many lines of symmetry can be drawn on **Figure 3** above?

(A) 2

(B) 4

(C) 6

Study Figure 4, then answer questions 20 and 21.

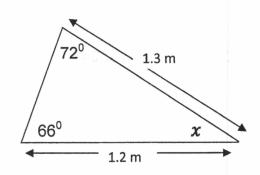


Figure 4

20. The value of the angle marked x in Figure 4 is

(A)  $138^{\circ}$ 

(B)  $72^{\circ}$ 

(C)  $66^{\circ}$ 

(D)  $42^{0}$ 

21. If the **perimeter** of **Figure 4** is 3 m, the length of the third side is

(A) 3.5

(B) 2.5

(C) 0.5

(D) 0.1

22. One face of a cube has a surface area of 12 cm<sup>2</sup>. What is the **total** surface area, in cm<sup>2</sup>, of the cube?

(A) 72

(B) 48

(C) 24

(D) 12

23. How many subsets can be formed from the set {x, y, z}?

(A) 2

(B) 4

(C) 6

Study the Venn diagram in Figure 5, then answer questions 24 and 25.

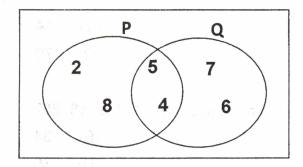


Figure 5

24.	The	members	in	set	P	only	are
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(A) 2, 8

(B) 4, 5

(C) 6, 7

(D) 2, 5

## 25. What is the sum of the members in the Venn diagram?

(A) 19

(B) 22

(C) 23

(D) 32

(A) 450

(B) 225

(C) 180

(D) 80

(A) \$2400

(B) \$3600

(C) \$5960

(D) \$8400

28. 12:8 = 36: 
$$x$$
. What is the value of  $x$ ?

(A) 8

(B) 12

(C) 24

- 29. The average of six numbers is 14. If the total for **five** of the numbers is 70, what is the sixth number?
  - (A) 12

(B) 14

(C) 35

- (D) 70
- 30. What is the next number in the sequence 1, 4, 9, 16, 25?
  - (A) 33

(B) 34

(C) 35

(D) 36

- 31. The largest number is
  - (A) 8.893

(B) 8.889

(C) 8.763

- (D) 8.762
- 32. **9, 12, and 15** is to **3** as **15, 20 and 35** is to
  - (A) 2

(B) 5

(C) 7

(D) 10

Study Figure 6, then answer question 33.

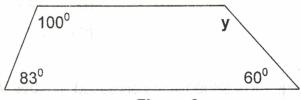


Figure 6

- 33. The value of y is
  - (A)  $20^{\circ}$

(B) 117<sup>0</sup>

(C)  $120^{0}$ 

- (D) 243<sup>0</sup>
- When Lalita poured 3 litres of water into an empty upright cylindrical metal drum, 1 cm of the bottom was covered. If the drum is 1 m high, what is the capacity of the drum in litres?
  - (A) 3

(B) 10

(C) 30

- 35. Fazil began doing his homework assignments at 17:05 h and finished at 19:35 h. The number of minutes Fazil took to complete his homework assignments was
  - (A) 150

(B) 120

(C) 90

(D) 65

Study the **Venn Diagram** in **Figure 7** below carefully, then answer **question 36**.

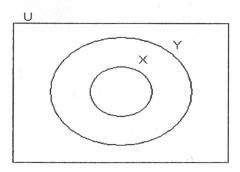


Figure 7

- 36. Which statement about the Venn diagram is **correct**?
  - (A) X is a subset of Y

(B) Y is a subset of X

(C) U is a subset of X

- (D) U is a subset of Y
- 37. Arrange the quantities  $\frac{7}{10}$ , 0.8 and 8% from **greatest to least**?
  - (A) 8%, 0.8,  $\frac{7}{10}$

(B)  $\frac{7}{10}$ , 0.8, 8%

(C)  $0.8, \frac{7}{10}, 8\%$ 

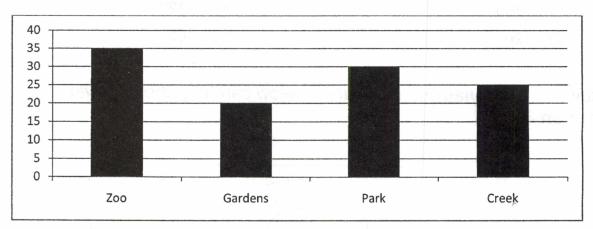
- (D) 0.8, 8%,  $\frac{7}{10}$
- 38. The cost of a cell phone was reduced from \$12 000 to \$9600. What was the percent decrease in the price of the cell phone?
  - (A) 10%

(B) 15%

(C) 20%

(D) 25%

The graph below shows the children who visited their favourite places during the vacation. Study it, then answer **questions 39 and 40.** 



**Favourite Places** 

- 39. How many children visited the zoo, park and creek?
  - (A) 25

(B) 30

(C) 35

- (D) 90
- 40. How many **more** children visited the zoo than the park?
  - (A) 5

(B) 15

(C) 20