M/I

GUYANA
MINISTRY OF EDUCATION
NATIONAL GRADE SIX ASSESSMENT
2011
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

(A) 1 (B) 9

(C) 20 (D) 45

ANSWER SHEET

1. A ~~B~~ C D

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.**

1. Which is a prime number?

(A) 0 (B) 1

(C) 3 (D) 9

2. Which is **not** a proper fraction?

(A) $\frac{4}{3}$ (B) $\frac{3}{3}$

(C) $\frac{1}{3}$ (D) $\frac{2}{3}$

3. $984 \times 10\,000$

(A) 9840 (B) 98 400

(C) 984 000 (D) 9 840 000

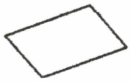
4. The operation that **undoes** multiplication is

(A) addition. (B) subtraction.

(C) division. (D) multiplication.

5. Which is **not** a square shape?

(A)  (B) 

(C)  (D) 

Use Figure 1 to answer question 6.

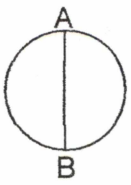


Figure 1

6. The line AB is called the

(A) radius. (B) diameter.

(C) semicircle. (D) chord.

7. The unit for measuring mass is the

(A) kg. (B) m.

(C) °C. (D) hour.

Figure 2 shows the dimensions of a rectangle. Use the information to answer question 8.

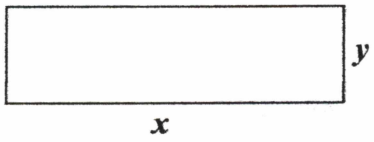


Figure 2

8. Which formula can be used to find the perimeter of the rectangle?

(A) $A = xy$ (B) $A = 2(x + y)$

(C) $A = \frac{x + y}{2}$ (D) $A = 4xy$

9. Which is the symbol for **'is a subset of'**?

(A) $\cup$ (B) $\cap$

(C) $\subset$ (D) $\supset$

Figure 3 below is a Venn diagram. Study it, then answer question 10.

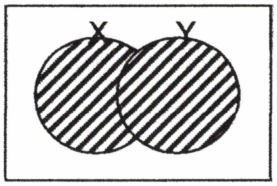


Figure 3

10. The shaded area represents

(A) X (B) Y

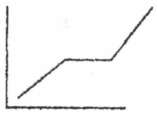
(C) X∩Y (D) X∪Y

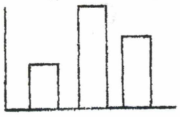
11. The symbol for ratio is

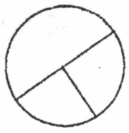
(A) % (B) :

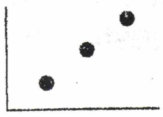
(C) → (D) ↔

12. Which is a pie chart?

(A) 

(B) 

(C) 

(D) 

13. Which is equal to 48×49?

(A) $48(50 - 1)$

(B) $48 \times 50 + 48 \times 1$

(C) $48 \times 50 - 1$

(D) $48 \times 50 + 1$

14. $4.04 + 3.143$

(A) 7.143

(B) 7.183

(C) 7.83

(D) 7.843

15. If $96 \times \square = 1$, then $\square =$

(A) 96

(B) $\frac{1}{96}$

(C) 1

(D) 0

16. What is the value of

$50 \times 0 \times 2$

(A) 50

(B) 100

(C) 1000

(D) 0

17. $\left(\frac{1}{2} \textit{ of } \frac{1}{2}\right) + \frac{1}{2} =$

(A) 1

(B) $\frac{1}{4}$

(C) $\frac{1}{8}$

(D) $\frac{3}{4}$

Figure 1 below shows the measurement of a piece of plywood. Study it carefully, then answer question 2.

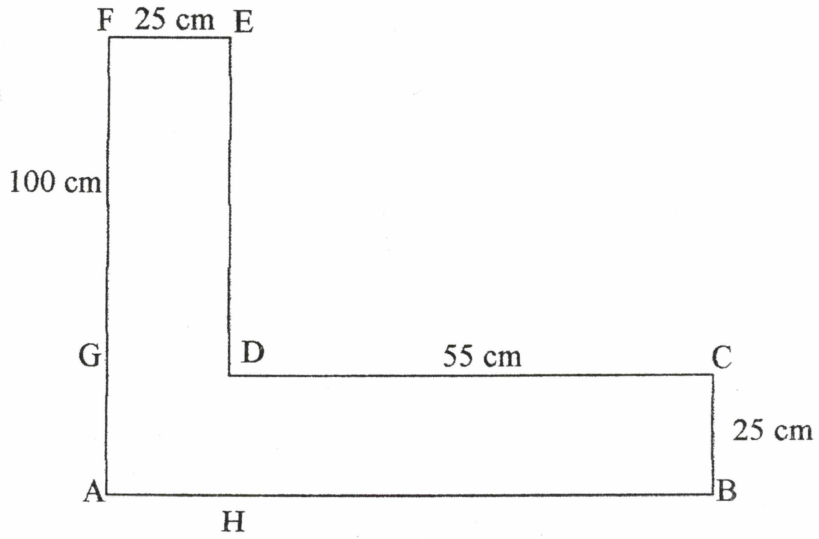


Figure 1

2. Calculate the area of the plywood. (5 marks)

CANDIDATE NUMBER: .....

3. A Sony TV set is sold for $67 200. A Sharp TV can be bought by making twelve monthly installments of $5200.

(a) What is the **total** cost of the Sharp TV? (2 marks)

(b) How much **more or less** will you have to pay for the Sony TV? (2 marks)

(c) Express your answer in (b) as a **percentage** of $67 200. (1 mark)

The Bar Graph below names the favourite fruits of children of Grade 6. Study it carefully, then answer question 4.

Favourite fruits of children of Grade 6

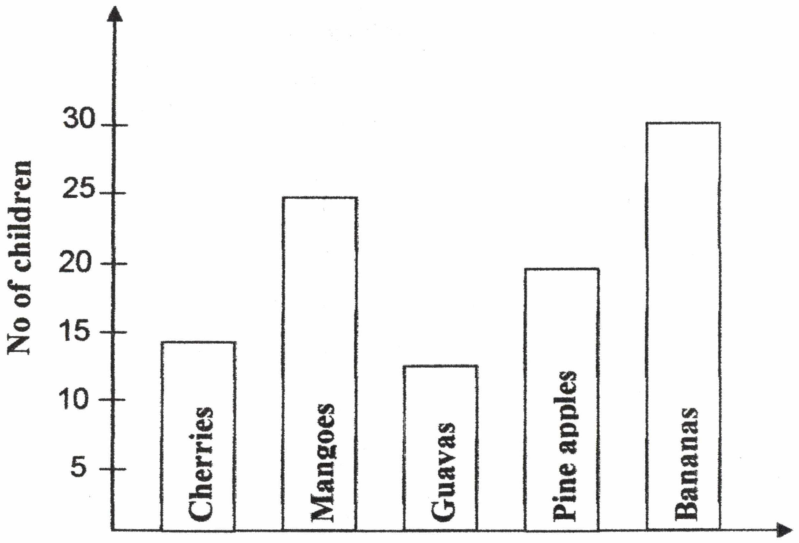


Figure 2

4. (a) Which fruit is liked by **most** children? (1 mark)

(b) Which **two** fruits are least liked by the children? (1 mark)

(c) Which **two** fruits are liked by 25 and over children? (1 mark)

(d) How many children are in Grade 6? (2 marks)

In the table below the heights of 5 men are listed. Study it carefully then answer question 5.

Heights of men

Men	Height in cm
Mr. King	160
Mr. Jones	148
Mr. Noble	170
Mr. Singh	156
Mr. Khan	172

Figure 3

5. (a) Name the shortest man. (1 mark)

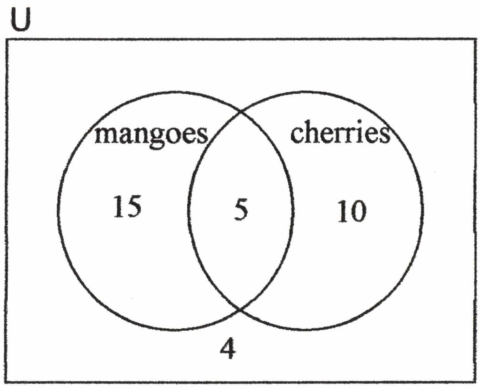
(b) Between which **two** men is the difference in height largest? (1 mark)

(c) What is the difference in height between Mr Khan and Mr Jones? (1 mark)

(d) What is the total height of the five men? (2 marks)

The Venn diagram below shows the number of girls in a class. Study the information,then answer question 6.

Fruits liked by girls



6. (a) How many girls like mangoes and cherries? (1 mark)

(b) How many girls like cherries only? (1 mark)

(c) How many girls like neither mangoes nor cherries? (1 m ark)

(d) How many girls are in the class? (2 marks)

END OF TEST