Second Form End of Year Assessment

INSTRUCTIONS

- 1. You have ONE (1) HOUR to complete and submit this assessment.
- 2. Have pencil and paper available for any rough working.
- 3. Read all questions carefully then choose the answer that best matches your response.
- 4. You will not be allowed to re-submit.

5. If you experience any technical difficulties report IMMEDIATELY to the Head of Mathematics, <u>pcadogan@harrisoncollege.edu.bb</u>

The respondent's email (**null**) was recorded on submission of this form. * Required

1. Email *

2. Name *

3. Form *

Mark only one oval.



Quiz Questions

4. If 1 m³ = 1000 litres how much water can a container 6m long by 4m wide by 1 point 3m high hold? *

Mark only one oval.

72 liters

- 720 litres
- 7200 litres
- 72, 000 litres
- 5. Given that 4x 1 > 15, the range of values of x is *

1 point

Mark only one oval.

x < 4 x > 4 x < 3.5 x > 3.5

 Jackson works for an hourly rate of \$14.00. If he works 4 hours overtime at time-and-a-half and 3 hours overtime at double-time. What was his total Overtime Pay? *

Mark only one oval.

\$84 \$147 \$168 \$196 7. Mary invested \$500 for 3 years at 5% per annum. John invested \$300 at the 1 point same rate. If they both received the same amount of money in simple interest, for how many years did John invest his money? *

Mark only one oval.



8. 1820 written in standard form is *



Mark only one oval.

1.82 x 10²

9. Which inequality best represents the number line below? *

1 point



1 point

3/13

10. If \$8000 is borrowed at the rate of 5% per annum for 4 years, the simple 1 point interest is *

Mark only one oval.

\$ 400 \$ 1600 \$ 240 \$ 320

11. If P = {factors of 6} and Q = {factors of 4}, then the shaded region on the 1 point Venn diagram below represents *





12. If 7x + 3 = 2x - 12 then the value of x is *

Mark only one oval.



13. The next term in the sequence 2, 6, 12, 20, 30... is *

1 point

1 point

1 point

Mark only one oval.

- 40
 42
 50
 60
- 14. By the distributive law, $52 \times 8 + 52 \times 12 =$

Mark only one oval.



60 x 64

15. In a class of 32 students, 17 study Music and 20 study Art. What is the LEAST 1 point number of students who study BOTH Music and Art?

Mark only one oval.



16. John had n marbles and Max had four times as many as John. Max gives Tom 1 point 8 of his marbles. How many marbles does Max now have?

Mark only one oval.



17. Solve:

1 point

10 - 2(x - 3) = 0



- 18. Factorize completely.
 - $14pq^2 + 21pq$

Mark only one oval.

- 7p(q² + 3q)
 7q(2p +3q)
- _____7pq(2q+3)
- _____7q²(2p +3p)
- 19. If 6(2x + 1) = 42, then x = *

1 point

1 point



$$\frac{3x}{4} + \frac{x}{5} =$$



21. The following are a pair of similar triangles. The length of MO in centimeters, 1 point is



Mark only one oval.

6 cm 8 cm 9 cm 10 cm 22. In the triangle ABC, not drawn to scale, what is the value of x in centimetres? 1 point



18 cm

23. How many boxes 3 cm by 5 cm by 5 cm can fit into the carton below. * 1 point







You must enter your answer in the space provided as a NUMERICAL value ONLY. Answers

Long answer

24. At a mask manufacturing company out of every 200 masks, 55 had 2 points defective elastic, 18 had defective filters and 140 had no defects at all. If x represents the number of masks with BOTH defective elastic and filters, calculate and enter value of x. (Enter a whole number.)

that contain letters or any other symbols will not be recognized.

- 25. A point R on level ground is situated 4.5 m from the base of a vertical tree, 2 points
 Q. The distance from the top of the tree P to the point R is 13 m. Calculate
 the height of the tree PQ. (Enter a decimal value)
- 26. The distance-time graph below shows the journey of a train from Town A to ^{2 points} Town B. Determine the average speed of the train in km/h on its journey from Town A to Town B. (Enter numerical value ONLY, no units)



27. For this REGULAR polygon given below, determine the size (in degrees) of 2 points EACH interior angle.



28. Triangle ADE is similar to triangle ABC. Find the length of BC in cm. (Enter 2 points numerical value only)



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