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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2024

0044 MATHEMATICS

PAPER 2 (100 Marks)

Tuesday **4 JUNE 2024** 9:00 A.M.–11:00 A.M.

INSTRUCTIONS TO CANDIDATES:

Write your school number, candidate number as well as your Initial(s) and Surname in the spaces provided on this question booklet.

Answer **ALL** questions in the spaces provided on this question booklet.

ALL working must be shown.

The use of calculators, tables or other calculation aids is **NOT** allowed.

ALL working is to be done in **blue** or **black ink**. Working and answers written in pencil, **except constructions and graphs**, may not be marked.

ALL diagrams are not drawn to scale unless otherwise indicated.

The mark for each question, or part question, is shown in brackets [].



This question paper consists of **15** printed pages and **1** blank page.

1. Evaluate: $3^2 + \sqrt{121}$

Answer: _____ [3]

2. A movie begins at 11:35 a.m. and ends at 1:20 p.m.
Calculate the length of time of the movie.

Answer: _____ [2]

3. (a) Write as a decimal.

$$14 + \frac{3}{100}$$

Answer: _____ [2]

- (b) Express **5.1964** correct to 2 significant figures.

Answer: _____ [1]



4. Susan filled her car's gas tank with 12 gallons of gas.
The price for a gallon of gas is \$5.85.
Calculate how much money Susan spent on gas.

Answer: \$ _____ [2]

5. A sweatshirt cost \$18.00 .
(a) Calculate the cost of 4 sweatshirts

Answer: \$ _____ [2]

The store offers a 20% discount on sweatshirts.

Calculate the

- (b) amount of discount on the 4 sweatshirts

Answer: \$ _____ [2]

- (c) sale price of the 4 sweatshirts

Answer: \$ _____ [2]

6. In Mathematics class, Tory has the following results

60%, 75%, 65%, 85% and 75%.

- (a) Write his

- (i) median score,

Answer: _____ [2]

- (ii) modal score.

Answer: _____ [1]

- (b) Calculate his average score.

Answer: _____ [3]

-
7. A case of juice was priced at \$18.95 before VAT was added. VAT is 10%.

Calculate the

- (a) total amount of VAT placed on the case of juice,
(give your answer to the nearest cent).

Answer: _____ [2]

- (b) total cost of the case of juice inclusive of the VAT.

Answer: _____ [2]



8. Isaiah thinks of a number doubles it and adds 3.

(a) Write an expression to show the phrase above.

Answer: _____ [2]

His result is 15.

(b) Write an equation to show this information.

Answer: _____ [1]

(c) Solve the equation to determine the number Isaiah thought of.

Answer: _____ [2]

9. Mary is given \$90 per week for her allowance.

She spends \$15 on school supplies.

- (a) Calculate the fraction she spends on school supplies.
(Give your answer in its lowest term.)

Answer: _____ [2]

- (b) How much money does she have left?

Answer: _____ [1]

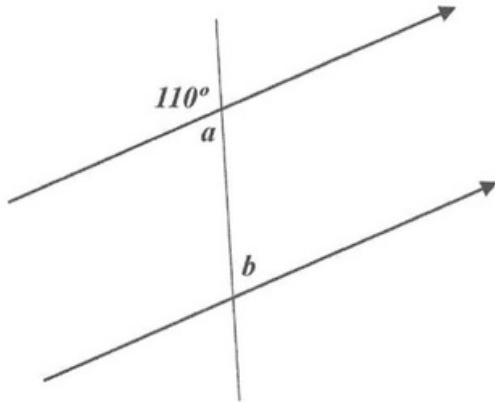
She spends $\frac{2}{5}$ of the remaining sum of money on a blouse.

- (c) Calculate the amount of money spent on the blouse.

Answer: _____ [2]



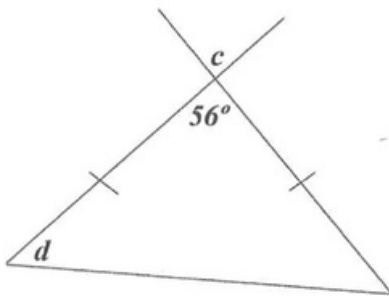
10. Determine the value of the angles marked by letters.



NOT DRAWN TO SCALE

Answer: $a =$ _____ $^{\circ}$ [2]

Answer: $b =$ _____ $^{\circ}$ [1]



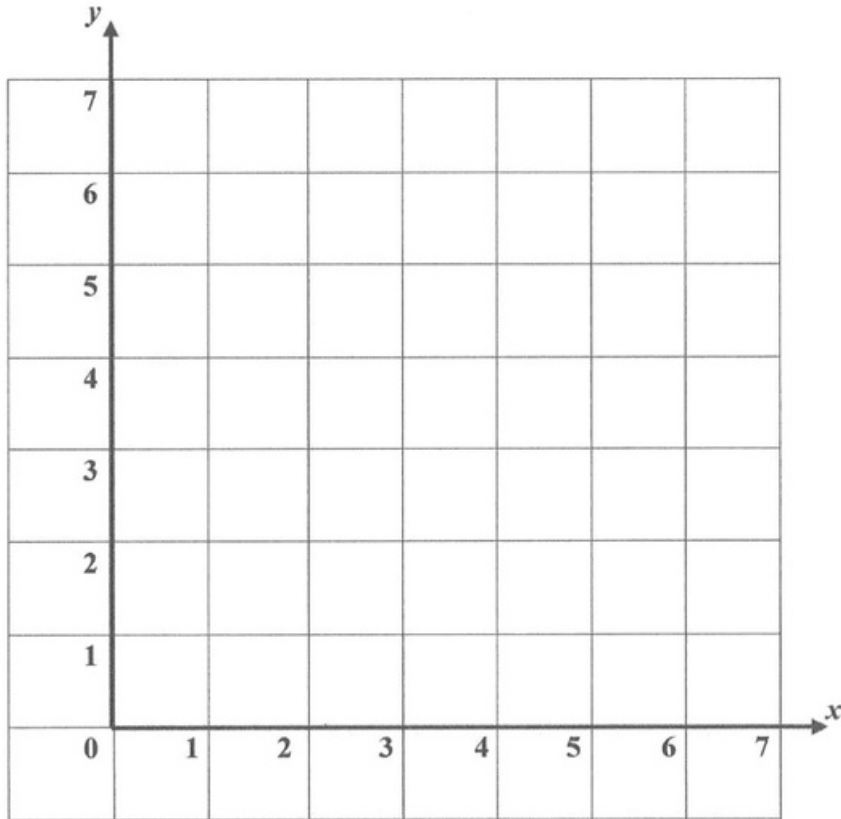
NOT DRAWN TO SCALE

Answer: $c =$ _____ $^{\circ}$ [1]

Answer: $d =$ _____ $^{\circ}$ [2]

11. (a) Plot, label and join the following points on the grid below.

$A(2, 3)$ $B(2, 1)$ $C(4, 1)$.



[3]

- (b) Give the special name of this triangle.

Answer: _____ [1]

- (c) Move triangle ABC 2 units to the right and 3 units up. [2]
-



12. Mr. Green builds a rectangular patio that measures 14 feet by 18 feet.

(a) Calculate the area of the patio.

Answer: _____ ft.² [2]

The patio is to be painted. A can of paint covers 12 square feet.

(b) Calculate the number of cans of paint needed.

Answer: _____ [2]

Each can of paint cost \$13.50.

(c) Calculate the total cost of the paint.

Answer: \$ _____ [2]

13. $\mathcal{E} = \{\text{whole numbers from 1 to 10 inclusive}\}$

$$A = \{2, 4, 6, 8, 10\}$$

$$B = \{1, 2, 4, 8\}.$$

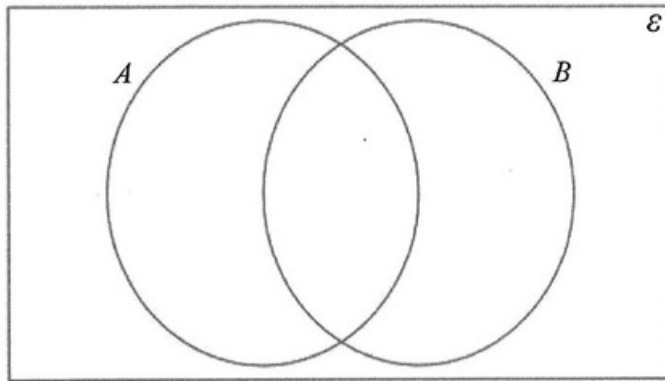
- (a) List the members of set

(i) $A \cup B = \{ \rule{10cm}{0.4pt} \}$ [2]

(ii) $A \cap B = \{ \rule{10cm}{0.4pt} \}$ [2]

(iii) $(A \cup B)' = \{ \rule{10cm}{0.4pt} \}$ [2]

- (b) Using the information above complete the Venn Diagram. [4]



14. A laptop has a cash price of \$3500.00 .

It can also be purchased on a hire purchase plan by paying 30% deposit of the cash price follow by 24 monthly payments of \$125 per month.



Hire Purchase Plan

30% of cash price

+

24 monthly payments
of \$125.00 per month

Calculate the

- (a) down payment,

Answer: _____ [2]

- (b) total of the monthly payments,

Answer: \$ _____ [2]

- (c) total cost of the laptop on the hire purchase plan,

Answer: _____ [2]

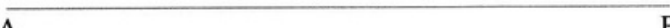
- (d) saving if the laptop was bought cash.

Answer: \$ _____ [2]



15. (a) Given the line AB below, use a protractor and draw an angle of 70° at A.

[2]

A  B

- (b) With a pair of compasses bisect the angle drawn in part (a). [3]
-



16. (a) A gardener works a basic week of 40 hours. He is paid \$14 per hour.
Calculate his basic weekly pay.

Answer: \$ _____ [2]

- (b) Overtime is paid at time and a half.
Calculate his earning for one hour overtime.

Answer: \$ _____ [2]

- (c) Last week he worked a total of 47 hours.
Find the number of hours of overtime he worked.

Answer: _____ [1]

- (d) Calculate the amount he earned in overtime that week.

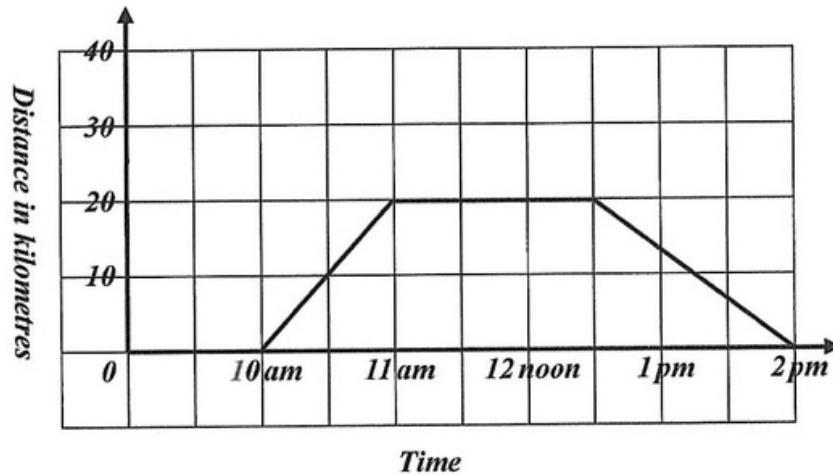
Answer: \$ _____ [2]

- (e) Calculate his total earning for that week.

Answer: \$ _____ [2]



17. The graph below shows Anna journey from home to the park.



- (a) State

- (i) the time Anna left home,

Answer: _____ [1]

- (ii) how far Anna's home is from the park,

Answer: _____ [1]

- (iii) how long Anna stayed at the park.

Answer: _____ [1]

- (b) Calculate her average speed for the journey **home**.

Answer: _____ [3]



18. Mr. Walker purchases the following items.

(a) Calculate his total bill.

Items	Quantity	Unit Price	Total	
Bread	2 loaves	\$4.20 each		[2]
Tuna	6 cans	2 for \$1.08		[2]
Mayonnaise	1 bottle	\$8.50		[1]
Total				[1]

(b) Calculate his change from \$25.00 .

Answer: \$_____ [2]

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