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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2025

0044 MATHEMATICS

PAPER 2 (100 Marks)

Tuesday **3 JUNE 2025** 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 **13** printed pages and **3** blank pages.

1. A month was chosen from the months of the year.

Find the probability of selecting a month

- (a) starting with *A*,

Answer: _____ [1]

- (b) ending with a *Y*,

Answer: _____ [1]

- (c) starting with *R*.

Answer: _____ [1]

-
2. A flight leaves from Abaco at 2:20 p.m. and arrives in Acklins $2\frac{1}{2}$ hours later.

- (a) Calculate the time the flight arrive in Acklins.

Answer: _____ [2]

- (b) Write 2:20 p.m. using the 24-hour clock.

Answer: _____ [1]



3. Ms. Rolle purchases the following items from Fresh Mart.

(a) Complete the shopping bill below

ITEMS	PRICE	TOTAL	
15 apples	3 for \$2.50	\$ _____	[2]
6 oranges	\$0.79 each	\$ _____	[2]
2 pints strawberry	\$5.75 per pint	\$ _____	[2]
	TOTAL	\$ _____	[1]

- (b) The cashier was given **two** \$20 notes. Calculate the change.

Answer: _____ [3]

4. The temperature in New York is -9°C and the temperature in Exuma is 12°C .

Calculate the difference of the temperatures.

Answer: _____ [2]

5. (a) Write 0.48 as a fraction in its lowest term.

Answer: _____ [2]

- (b) Calculate 48% of \$75.

Answer: _____ [2]

-
6. It took 9 men 5 hours to paint a school.

If working at the same rate, calculate how long will it take

- (a) 1 man,

Answer: _____ [2]

- (b) 3 men.

Answer: _____ [2]



7. (a) Simplify: $3x - 2y + x - 4y$

Answer: _____ [2]

- (b) Solve: $3(x - 5) = 21$

Answer: _____ [3]

8. Ms. Smith wants to purchase a car that is priced at \$6000.

She borrows the money from the bank for 3 years at 15% per annum simple interest.

Calculate the

- (a) interest to be paid after the 3 years,

Answer: _____ [3]

- (b) total cost of the car.

Answer: _____ [2]

9. (a) Draw and label a line $YZ = 6$ cm long.

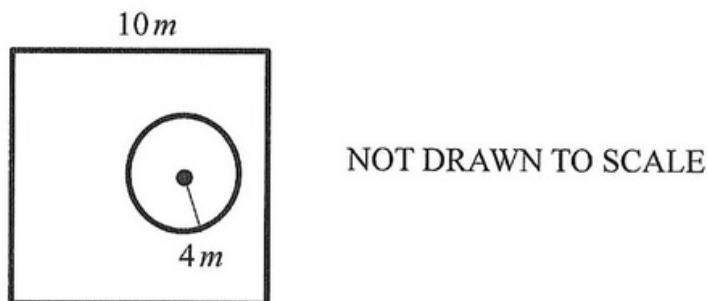
[2]

- (b) In part (a), using a pencil, ruler and pair of compasses **ONLY**, construct a 60° angle at Y .
-

[2]



10. Mr. Capron has a piece of land in the shape of a square of side 10 m .



- (a) Calculate the area of the land.

Answer: _____ [2]

He wants to plant a circular rose garden on the land of radius 4 m .

- (b) Calculate the area of the circular rose garden. (use $\pi = 3.14$)

Answer: _____ [3]

He planted the remainder of the land with grass.

- (c) Calculate the area of grass.

Answer: _____ [2]

11. (a) Use the set symbols in the box below to make the statements that follows true.

$\emptyset$	$\subset$	$\in$
-------------	-----------	-------

- (i) 7 _____ $\{\text{prime numbers}\}$ [1]
- (ii) $\{2, 4\}$ _____ $\{\text{factors of } 8\}$ [1]
- (iii) $\{\text{month with 35 days}\} =$ _____ . [1]

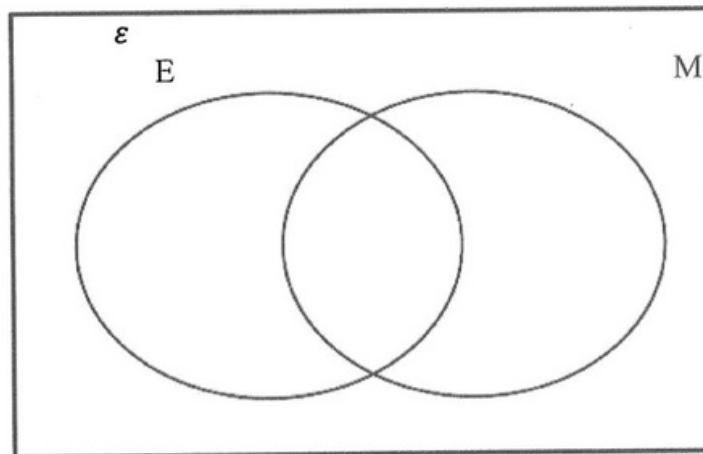
- (b) In a class of 60, students were asked to identify their favourite subject.

25 chose Mathematics (M) only

15 chose both subjects

32 students chose English (E)

- (i) Use the information above to complete the Venn diagram below. [4]



- (ii) Write down the number of students that liked neither subject?

Answer: _____ [1]



12. Mary scored the following results on eight of her mathematics quizzes

56% 58% 79% 56% 91% 83% 88% 81%

- (a) Determine her

- (i) median score,

Answer: _____ [3]

- (ii) modal score.

Answer: _____ [1]

- (b) Calculate her mean (average) score.

Answer: _____ [3]

-
13. Calculate: $\frac{2}{5} + \frac{3}{4} \times \frac{2}{9}$

Answer: _____ [5]

14. Maria is paid \$18 per hour for a basic 40-hour week

- (a) Calculate her earning for a basic work week

Answer: _____ [2]

If she works on Saturday, she is paid time and a half time

- (b) Calculate how much she would be paid for 1 hour overtime

Answer: _____ [2]

Last week Maria worked 6 hours on Saturday

- (c) Calculate her overtime earning for last week.

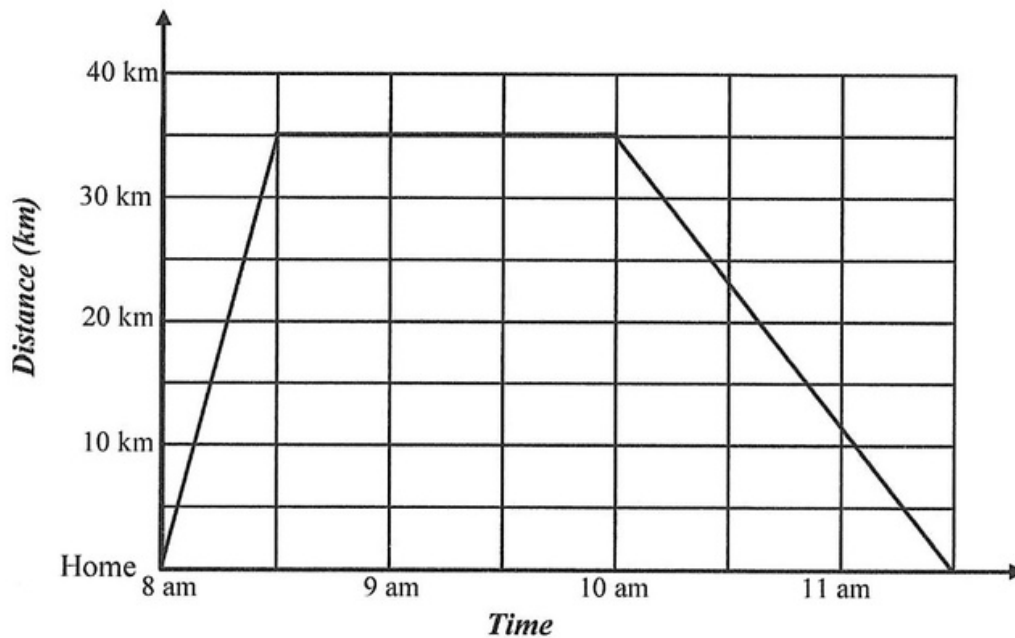
Answer: _____ [2]

- (d) Calculate her total earning for last week.

Answer: _____ [2]



15. The graph shows Michael's journey from home to the grocery store and back. Study the diagram and then answer the following questions.



(a) State

(i) the time Michael left home,

Answer: _____ [1]

(ii) the distance of the grocery store from Michael's home,

Answer: _____ [1]

(iii) how long Michael stayed at the grocery store,

Answer: _____ [1]

(iv) the total distance travelled by Michael.

Answer: _____ [1]

(b) Determine how long it took Michael to travel to and from the grocery store.

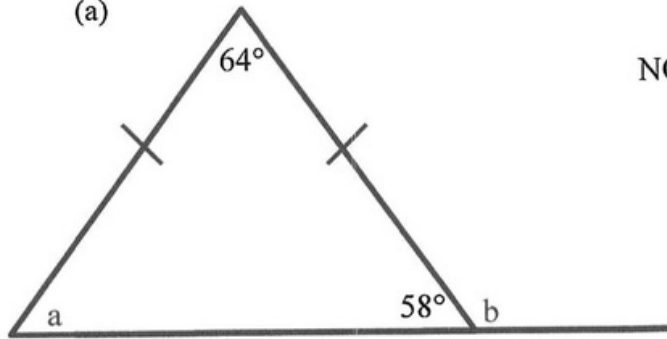
Answer: _____ [1]

(c) Calculate the average speed of the entire journey.

Answer: _____ [3]

16. Calculate the value of the angles marked by letters

(a)

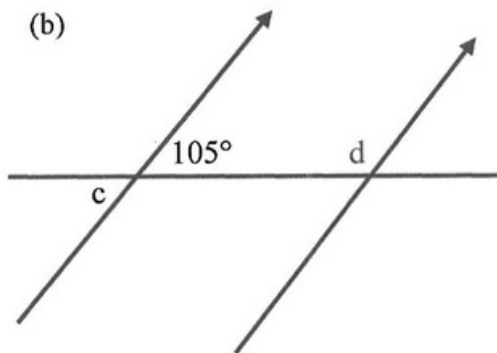


NOT DRAWN TO SCALE

Answer $\angle a =$ _____[°] [1]

Answer $\angle b =$ _____[°] [2]

(b)



NOT DRAWN TO SCALE

Answer $\angle c =$ _____[°] [1]

Answer $\angle d =$ _____[°] [2]

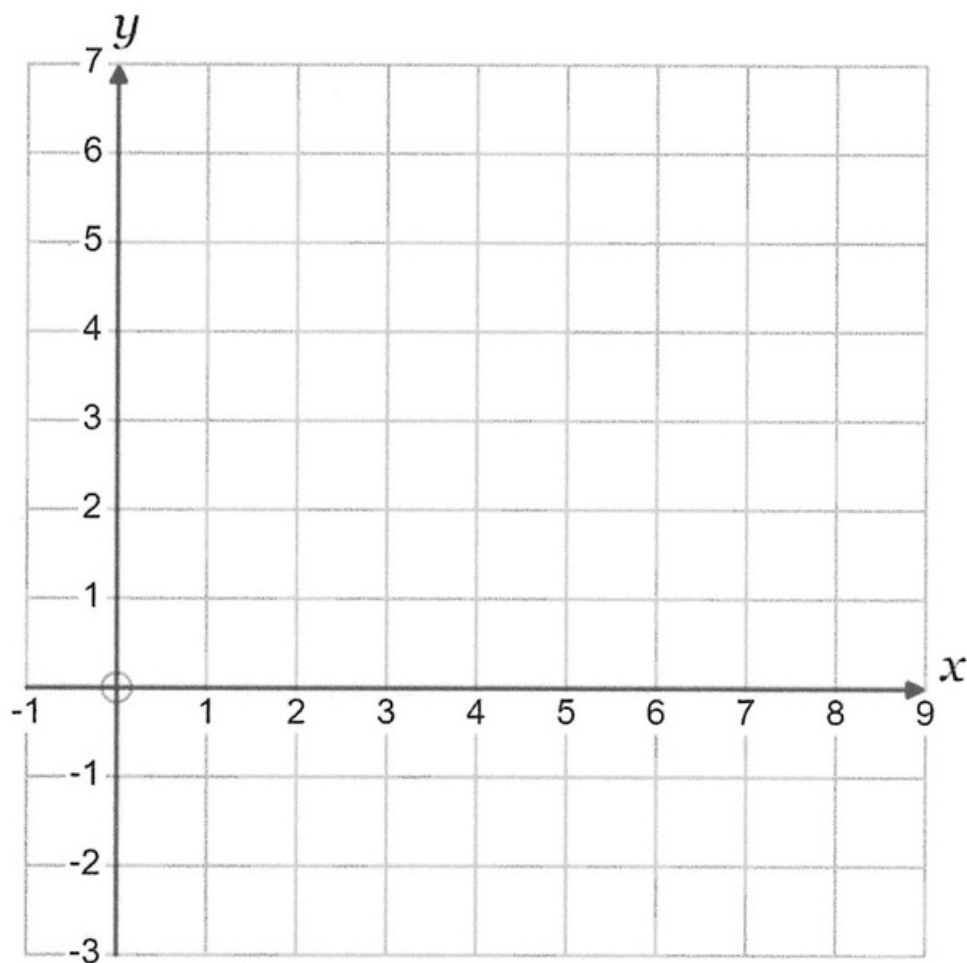


17. This entire question must be done on the grid below

(a) Plot, label and join the points

$X(0, 1)$ $Y(3, 0)$ $Z(2, -2)$.

[4]



(b) Draw and label the line $Y = 2$.

[2]

(c) Reflect triangle XYZ along the line $Y = 2$ and label X_1 Y_1 Z_1 .

[3]

(d) State the coordinate of Z_1 .

[2]

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