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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2023

0044 MATHEMATICS

PAPER 2 (100 Marks)

Monday **5 JUNE 2023** 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 in 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 for 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 **14** printed pages and **2** blank pages.

1. Travelling at 48 km/h, how far would a car travel in 5 hours?

Answer: _____ km [2]

2.



A bicycle wheel has a diameter of 28 cm.

Using $\pi = 3$, calculate the circumference of the wheel.

Answer: _____ cm [3]

3. The price of a cell phone is \$700 plus VAT of 10%.

Calculate the total cost of the phone.



Answer: \$ _____ [3]



4.



Tony has a 20 pound bag of potatoes.

Given that 5 pounds = 2.2 kg, express the weight of the bag in kilograms.

Answer: _____ kg [3]

5. There are 630 students in a school.

The ratio of boys to girls is 2:5

(a) Calculate the number of girls in the school.

Answer: _____ [2]

(b) State the fraction of the students that are boys.

Answer: _____ % [1]

6. Mr. Nixon and his son went fishing.

Mr. Nixon caught a snapper that weighed $2\frac{1}{2}$ pounds.

His son caught a snapper that weighed $1\frac{1}{4}$ pounds.

- (a) Calculate the total weight of the fish caught.

Answer: _____ lbs [4]

- (b) Express your answer in decimal form.

Answer: _____ [1]

7. Place $<$, $>$ or $=$ in the box to make a true statement.

(a) $\frac{3}{5}$ 40% [1]

(b) 0.06 60% [1]

(c) $(0.5)^2$ 0.25 [1]



8.



A man borrowed \$10,000 from the bank for 3 years at 12% per annum.

Calculate the

(a) interest he is charged,

Answer: \$ _____ [3]

(b) amount of the loan.

Answer: \$ _____ [2]

9. Find the sum of three thousand six hundred forty nine and seven thousand.

Answer: _____ [3]

10. The table shows the scores of a group of students on a test.

Number of students	Score %
6	60
2	80
2	100

- (a) State the modal score.

Answer: _____ % [1]

- (b) Calculate the number of students in the class.

Answer: _____ [1]

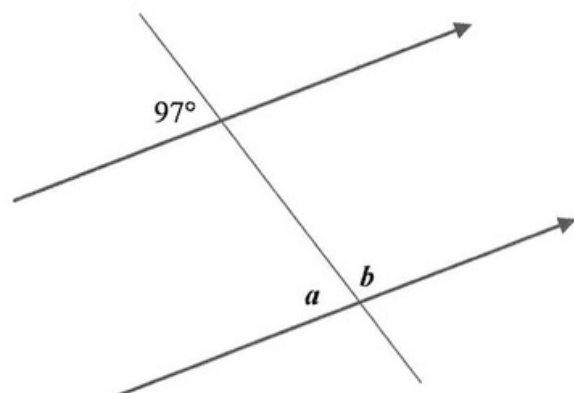
The total of the scores is 720.

- (c) Calculate the mean mark of the class.

Answer: _____ % [2]



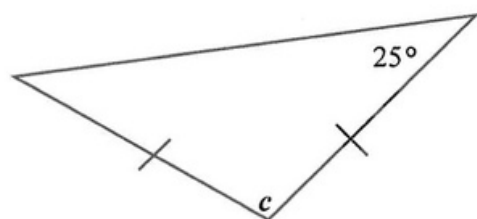
11. Calculate the size of the angles marked by letters.



NOT TO SCALE

Answer: $a =$ _____ $^\circ$ [1]

Answer: $b =$ _____ $^\circ$ [2]



NOT TO SCALE

Answer: $c =$ _____ $^\circ$ [3]

12. Sara is paid \$9.00 per hour when she works a 40 hour week.

(a) Calculate her basic weekly pay.

Answer: \$ _____ [2]

Overtime is paid at time and a half.

(b) Calculate the amount of money she is paid for 1 hour of overtime.

Answer: \$ _____ [2]

(c) Calculate the amount of money she is paid for 3 hours of overtime.

Answer: \$ _____ [2]

(d) Calculate her total pay for the week when she worked her basic hours plus 3 hours of overtime.

Answer: \$ _____ [2]



13. (a) Simplify $3q + 12 + 2(3q - 5)$

Answer: _____ [3]

- (b) Solve for m :

$$3m - 5 = m + 8$$

Answer: _____ [3]

- (c) Given that $x = 5$ and $y = 9$, evaluate $\frac{xy}{y-x}$

Answer: _____ [3]

14. $\mathcal{E} = \{\text{Natural numbers less than 12}\}$

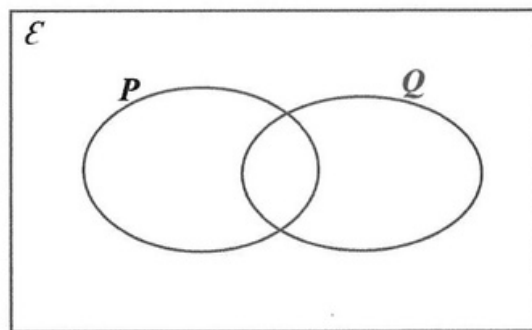
$P = \{\text{multiples of 3}\}$

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

- (a) List the members of set P .

Answer: { _____ } [2]

- (b) Use the Venn diagram below to fill in the given information. [4]



- (c) State the members of the following

(i) $P \cap Q$ Answer: { _____ } [1]

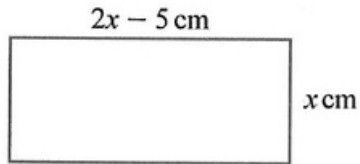
(ii) $P \cup Q$ Answer: { _____ } [1]

(iii) P' Answer: { _____ } [1]

(d) State $n(Q)$ Answer: _____ [1]



15. The width of a rectangle is $2x - 5$ cm and the length is x cm



NOT TO SCALE

- (a) Write and simplify an expression for the perimeter of the rectangle.

Answer: _____ [3]

The perimeter of the rectangle is 14 cm.

- (b) Using your answer in (a), form an equation for the perimeter of the rectangle.

Answer: _____ [1]

- (c) Solve your equation.

Answer: _____ [2]

- (d) Using your value for x ,

- (i) State the width of the rectangle

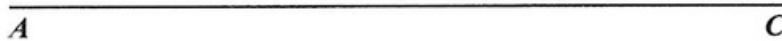
Answer: _____ cm [2]

- (ii) Calculate the area of the rectangle

Answer: _____ cm^2 [2]

16. The side AC of triangle ABC has been drawn below.

- (a) Use a pencil, ruler and a pair of compasses ONLY to complete the construction of triangle ABC with $AB = 6$ cm and $BC = 8$ cm. [4]



- (b) Measure and state in *cm* the length of line segment AC .

Answer: _____ cm [1]

- (c) Use a protractor to measure and state the size of angle B .

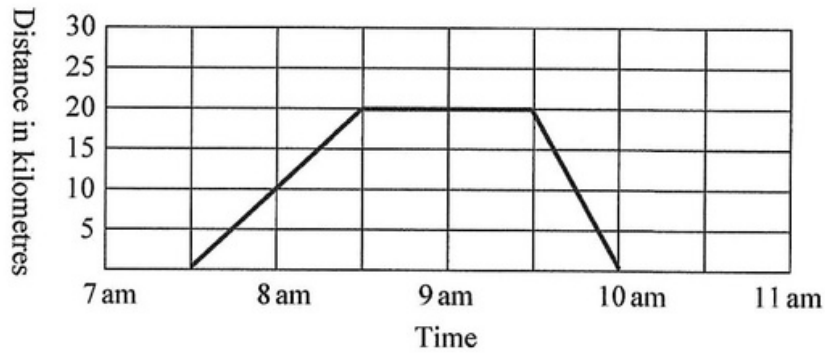
Answer: _____ ° [1]

- (d) Give the geometrical name of triangle ABC .

Answer: _____ [1]



17. The Travel graph below shows Eli's Journey from home to the beach and back.



- (a) State the

- (i) time Eli left home,

Answer: _____ am [1]

- (ii) length of time Eli spent at the beach,

Answer: _____ [1]

- (iii) distance from Eli's home to the beach.

Answer: _____ km [1]

- (b) Calculate the average speed of the journey (excluding stops).

Answer: _____ km/h [4]

18. (a) Mrs. Bain bought the following items from the store.

Calculate her total bill.

Item	Cost	Total	
8 oranges	2 for 99¢		[2]
2lbs Bananas	\$1.32 per pound		[2]
3 jars honey	\$5.00 per jar		[2]
TOTAL			[1]

- (b) Calculate her change from \$25

Answer: \$ _____ [2]



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