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0044/2

BJC

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Total Marks	

SCHOOL No.	CANDIDATE No.
INITIAL(S)	SURNAME

MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2011

0044 MATHEMATICS

PAPER 2 (100 MARKS)

Monday **6 June 2011** 9.00–11.00 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 the question booklet.

ALL working must be shown.

The use of calculators, slide rulers, 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.

ROUGH WORK

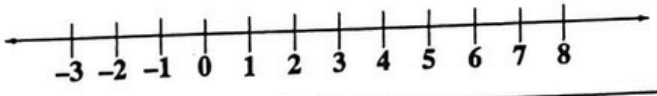
Answer **ALL** questions. Show **ALL** necessary working.

1. Write in order from least to greatest.

$$-6, 0, -2, 5$$

Answer: _____ [1]

2. Illustrate $n > 4$ on the number line shown below. [1]



3. In a survey of 489 people, $\frac{2}{3}$ of them chose basketball as their favourite sport. How many people chose basketball?

Answer: _____ [2]

4. On a map, 2.5 cm represents 50 km. How many centimetres would represent 300 km?

Answer: _____ cm [3]

ROUGH WORK

5. The table below shows the time schedule of a bus. Fill in the information for (a), (b) and (c).

Journey Begins	Time Taken	Journey Ends
9:20	35 minutes	(a)
4:11	(b)	5:13
(c)	55 minutes	8:55

[3]

6. Charles' marks for mathematics at the end of the term were 74, 83, 55, 32, 80, 100. Calculate his mean score after the highest and lowest marks are removed.

Answer: _____ [4]

7. Calculate the value of $7 + 4 \times (6 - 2)^2$

Answer: _____ [4]

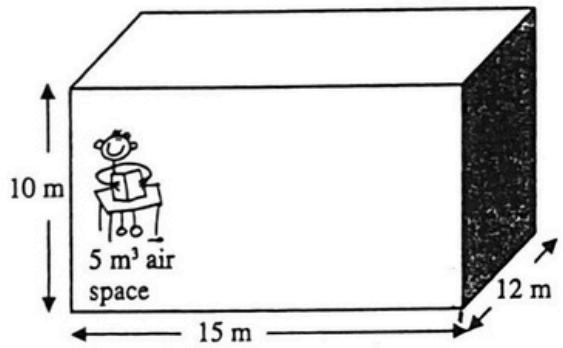
ROUGH WORK

8. Write the best response from **Column A** on the line in **Column B** to make each expression true.

COLUMN A	**COLUMN B**
$\frac{11}{x}$	_____ x more than 11
$11x$	_____ 11 divided by x
$11 + x$	_____ 11 decreased by x
$11 - x$	_____ The product of 11 and x
$x - 11$	

[4]

9.



(a) Calculate the volume of the room.

Answer: _____ m^3 [2]

Each student requires 5 m^3 of air space. What is the maximum number of students that can use the room?

Answer: _____ students [2]

ROUGH WORK

10. Write in words:

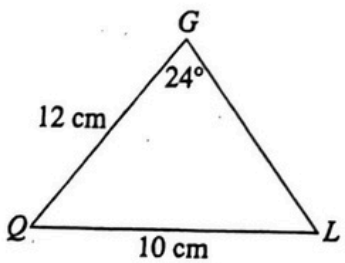
(a) $A \subset B$ _____ [1]

(b) $2 \in G$ _____ [1]

(c) $D = \varnothing$ _____ [1]

(d) $n(E) = 10$ _____ [1]

11.



NOT TO SCALE

GQL is an isosceles triangle. $\angle Q$ and $\angle L$ are the base angles.

(a) What is the length of GL?

Answer: _____ cm [1]

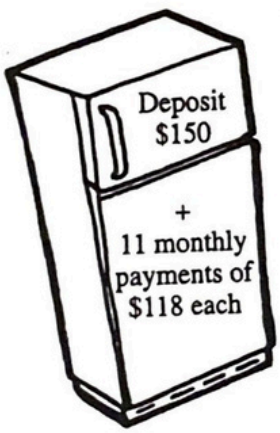
(b) Calculate the size of $\angle Q$.

Answer: _____ ° [3]

ROUGH WORK

12. $\left(\frac{7}{8}+\frac{1}{4}\right)\times 1\frac{5}{11}$

Answer: _____ [4]

13. 

Mrs. Allen bought a refrigerator on a payment plan. She made a deposit of $150 and paid the balance in 11 monthly payments of $118 each.

(a) Calculate the total amount of the monthly payments.

Answer: $ _____ [2]

(b) Calculate the total cost of the refrigerator using the payment plan.

Answer: $ _____ [2]

If Mrs. Allen had paid the cash price of the refrigerator she would have saved $130.

(c) Calculate the cash price of the refrigerator.

Answer: $ _____ [2]

ROUGH WORK

14. Using a pair of compasses, a ruler and a pencil only,

(a) construct $\triangle ABC$ where $AB = 6$ cm, $AC = 5$ cm and $\angle ABC = 60°$.

[5]

(b) Measure and write down

(i) the size of $\angle ACB$

Answer: _____° [1]

(ii) the length of BC.

Answer: _____ cm [1]

ROUGH WORK

15. A group of students were asked how many siblings they had. The tally chart below represents the information.

(a) Complete the tally chart for **A** and **B**. [2]

Number of siblings	Frequency	Total
2	𝍸 //	**A**
3	///	3
4	**B**	4
5	/	1
6	/	1

(b) What is the modal number of siblings?

Answer: _____ siblings [1]

(c) How many students had 3 or more siblings?

Answer: _____ students [1]

(d) How many students were in the survey?

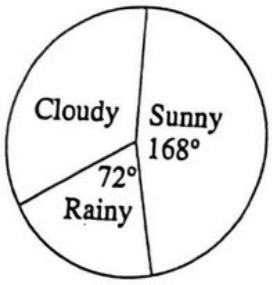
Answer: _____ students [1]

(e) What is the total number of siblings?

Answer: _____ siblings [2]

ROUGH WORK

16. The pie chart shows the weather for the month of September.



NOT TO SCALE

(a) Calculate the size of the angle representing cloudy days.

Answer: _____ ° [3]

(b) For what percentage of the days is it rainy?

Answer: _____ % [2]

(c) September has 30 days, how many of these days were sunny?

Answer: _____ days [3]

ROUGH WORK

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

Answer: _____ [3]

(b) Write an equation to represent the following

"five times a number plus eight is equal to eight less than the number"

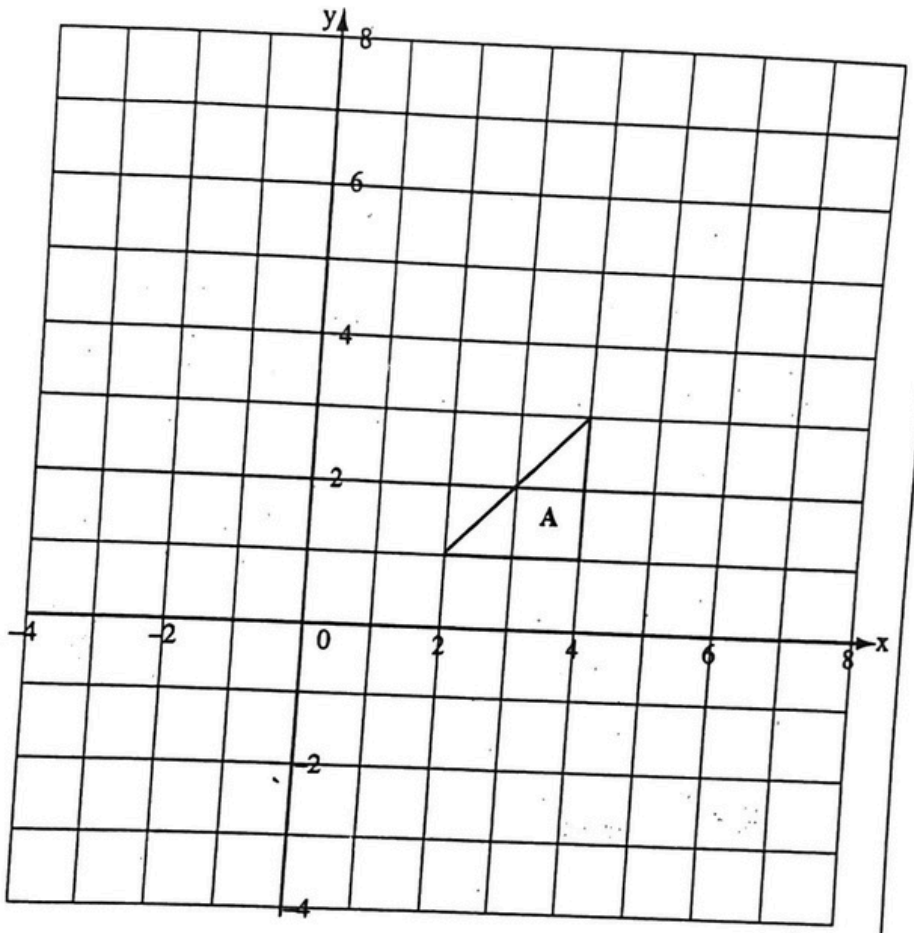
Answer: _____ [2]

(c) Solve your equation to find this number.

Answer: _____ [3]

ROUGH WORK

18.



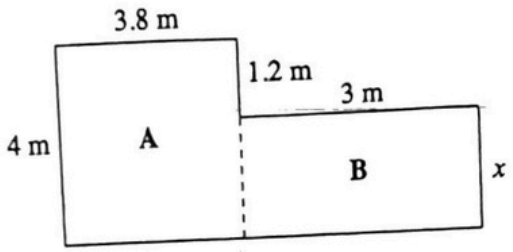
(a) Draw and label the line $y = 4$. [2]

(b) Reflect Δ **A** in the line $y = 4$. Label the image **B**. [3]

(c) Move Δ **A** four (4) spaces to the right and two (2) spaces down. Label this triangle **C**. [3]

ROUGH WORK

19. Mr. Jones wants to carpet the floor of his room. The floor plan is drawn below.



NOT TO SCALE

(a) What is the length of x?

Answer: _____ m [1]

(b) Calculate the area of **A**.

Answer: _____ m^2 [2]

(c) Calculate the area of **B**.

Answer: _____ m^2 [2]

(d) Find the total area of the room.

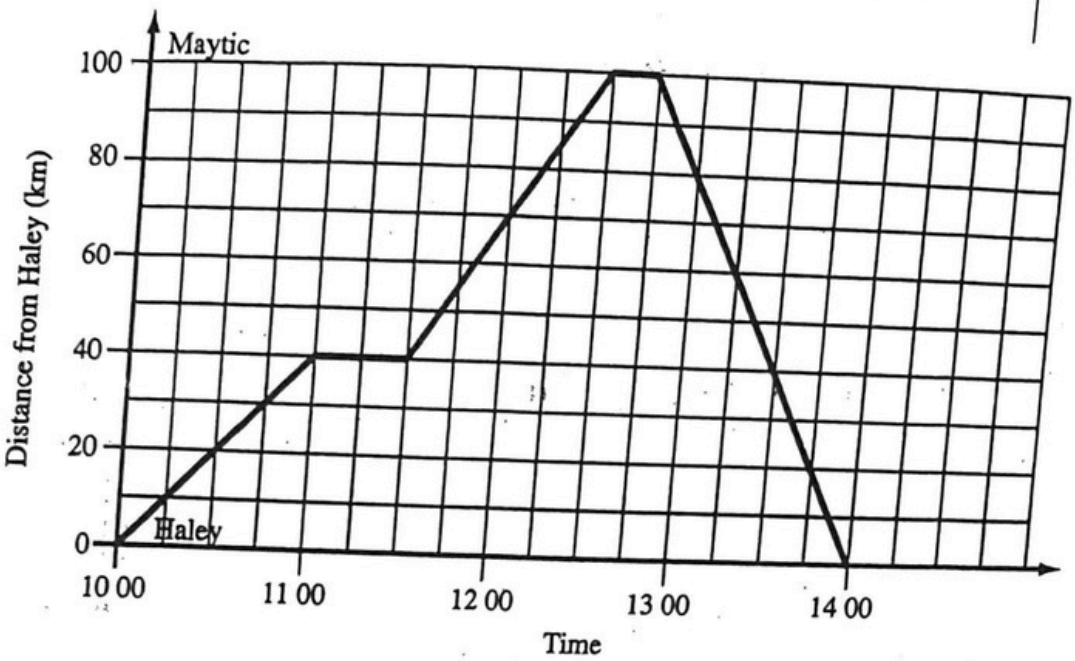
Answer: _____ m^2 [2]

(e) The total cost of carpeting if the carpet costs \$10 per square metre.

Answer: \$ _____ [2]

ROUGH WORK

20. The graph shows the return journey by car from Haley to Maytic.



(a) At what time did the car leave Haley?

Answer: _____ [1]

(b) How far is it from Haley to Maytic?

Answer: _____ km [1]

(c) How long did the car stop for in total?

Answer: _____ [2]

(d) At what time did the car return to Haley?

Answer: _____ [1]

(e) Calculate the total time taken for the entire journey.

Answer: _____ [1]

(f) Calculate the average speed of the entire journey (include stops).

Answer: _____ k/h [3]