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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2019**

0044 MATHEMATICS

PAPER 2 (100 Marks)

Tuesday **4 JUNE 2019** 9:00 A.M.–10:00 A.M.

INSTRUCTIONS TO CANDIDATES:

Do not open this booklet until you are told to do so.

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.

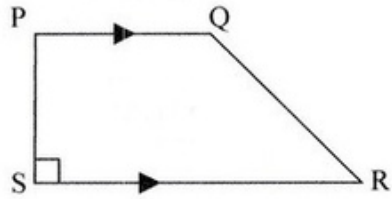
ALL working is to be done in **blue** or **black ink**. Working and answers written in pencil, **except for constructions and graphs**, may not be marked.

ALL diagrams are not drawn to scale unless otherwise indicated.

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



1. Use the diagram below to answer the following questions.



- (i) State the pair of parallel lines.

Answer: _____ [1]

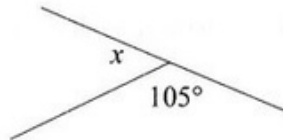
- (ii) State a pair of perpendicular lines.

Answer: _____ [1]

2. What is the Lowest Common Multiple of 16, 12 and 4.

Answer: _____ [2]

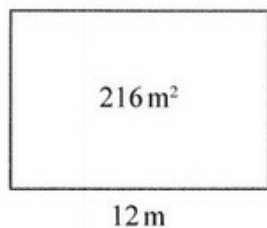
3. Calculate the size of the angle marked x .



Answer: _____ [2]



4. The area of a rectangular piece of land is 216 m^2 . If the length of the land is 12 m . Calculate the width of the land.



Answer: _____ [2]

5. Calculate the value of $400 + 150 \div 2$

Answer: _____ [2]

6. Tanya is m years old. Sandra is 6 times as old as Tanya.

(a) Write an expression in m to show Sandra's age.

Answer: _____ [1]

(b) The sum of their ages is 63.

(i) Write an equation to show this information.

Answer: _____ [1]

(ii) Solve your equation to find Sandra's age.

Answer: _____ [2]



7. Ms. Roberts bought 45 calculators at \$2.20 each.



- (a) What was the total cost of the calculators?

Answer: _____ [2]

- (b) She received \$1.00 in change from the cashier.

How much money did she give the cashier?

Answer: _____ [1]

-
8. There are 1200 students at Tropical High School. The ratio of boys to girls is 3:5.

- (a) How many girls are in the school?

Answer: _____ [4]

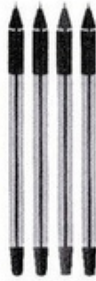
- (b) 9 more boys entered the school.

If the ratio remains the same how many girls entered?

Answer: _____ [3]



9. Mr. Smith purchased 80 pens. He discovered that 15% of them were faulty.



- (a) How many pens were good?

Answer: _____ [3]

- (b) He sold the good pens for 50 cents each. How much money did he make?

Answer: _____ [2]

-
10. Bradley received \$5000 from his grandmother. He invested $\frac{3}{4}$ of the money.

- (a) How much money did he invest?

Answer: _____ [2]

- (b) Bradley invested the money for 2 years at a simple interest rate of 5% per annum.

Calculate the interest earned.

Answer: _____ [3]



11. (a) Find the product of 84 and 7

Answer: _____ [2]

- (b) Divide 2214 by 3

Answer: _____ [1]

- (c) Find the sum of your answers from part (a) and part (b)

Answer: _____ [2]

-
12. Margo Forbes earns \$9 per hour when she works a basic week of 40 hours.

- (a) Calculate the amount of her basic pay.

Answer: _____ [2]

- (b) Overtime is paid at time and a half.

How much does she earn for 1 hour of overtime?

Answer: _____ [2]

- (c) Calculate Margo's total wage for the week if she worked 6 hours of overtime in addition to her basic hours.

Answer: _____ [3]

-
13. Farmer Henry harvested $12\frac{2}{3}$ pound of potatoes and $8\frac{1}{4}$ pound of carrots last week.

- (a) How many pounds of vegetables did he harvest altogether?

Answer: _____ [3]

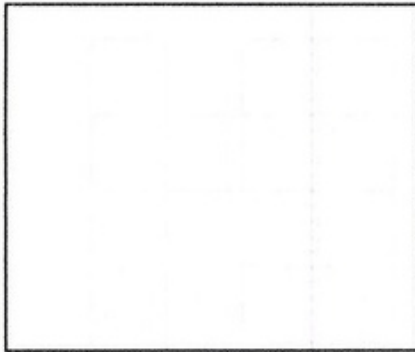
- (b) The following week he harvested 23 pounds of vegetables.

How many more pounds of vegetables did he harvest in the second week?

Answer: _____ [3]



14. The diagram below represents a rectangular field drawn to scale.



DRAWN TO SCALE

- (a) Measure and write down the length and width of the scaled drawing.

(i) Length _____ cm [1]

(ii) Width _____ cm [1]

- (b) Using a scale of 1 cm to 7 m

Calculate

the actual length and width of the land.

Actual length _____ m [1]

Actual width _____ m [1]

- (c) Calculate the actual perimeter of the land.

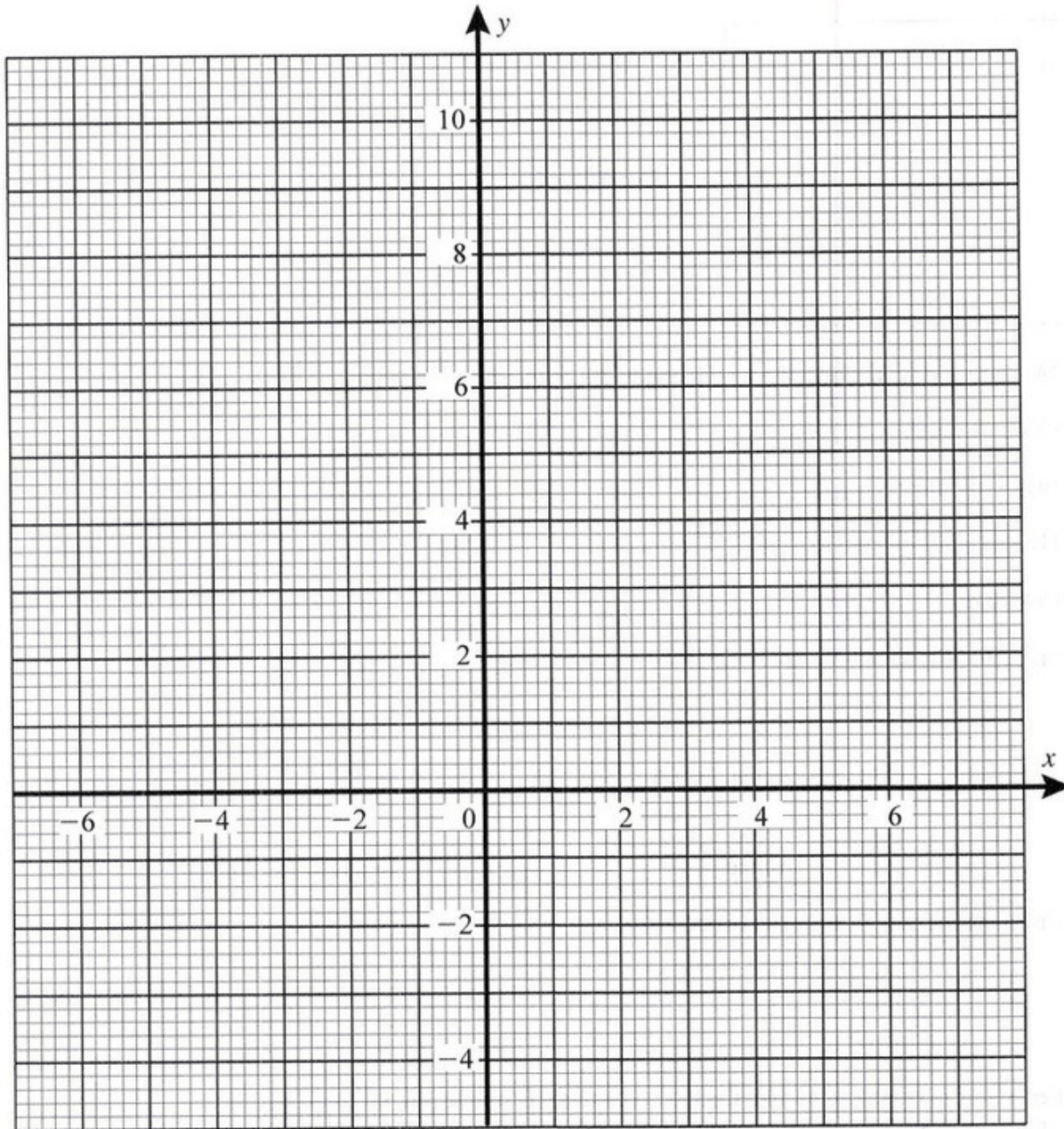
Answer: _____ m [2]

- (d) Fencing is to be placed around the land. The fence is sold in lengths of 3 m. How many sections of fencing are needed?

Answer: _____ [3]



15.



- (a) Plot, label and join the following points to form a quadrilateral.

$H(-4, 0)$, $I(-3, 2)$, $J(-1, 0)$, $K(-3, -3)$

[5]

- (b) Draw in the diagonal IK

[1]

- (c) Reflect HJK in the y axis

[2]

- (d) Label the image $H_1I_1J_1K_1$

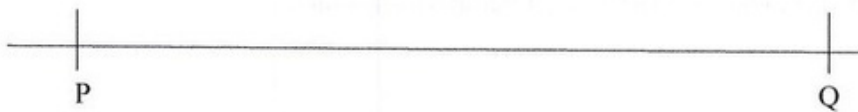
[1]



16. The side PQ of triangle PQR has been drawn below.

(a) Use a ruler, a pencil and a pair of compass only to

(i) Complete triangle PQR with $PR = 6\text{ cm}$ and $QR = 8\text{ cm}$ [2]



(ii) bisect the side PQ [2]

(iii) bisect the angle PQR [3]

(iv) label the point A where the bisectors meet [1]

(v) measure and write down the length of AP [1]

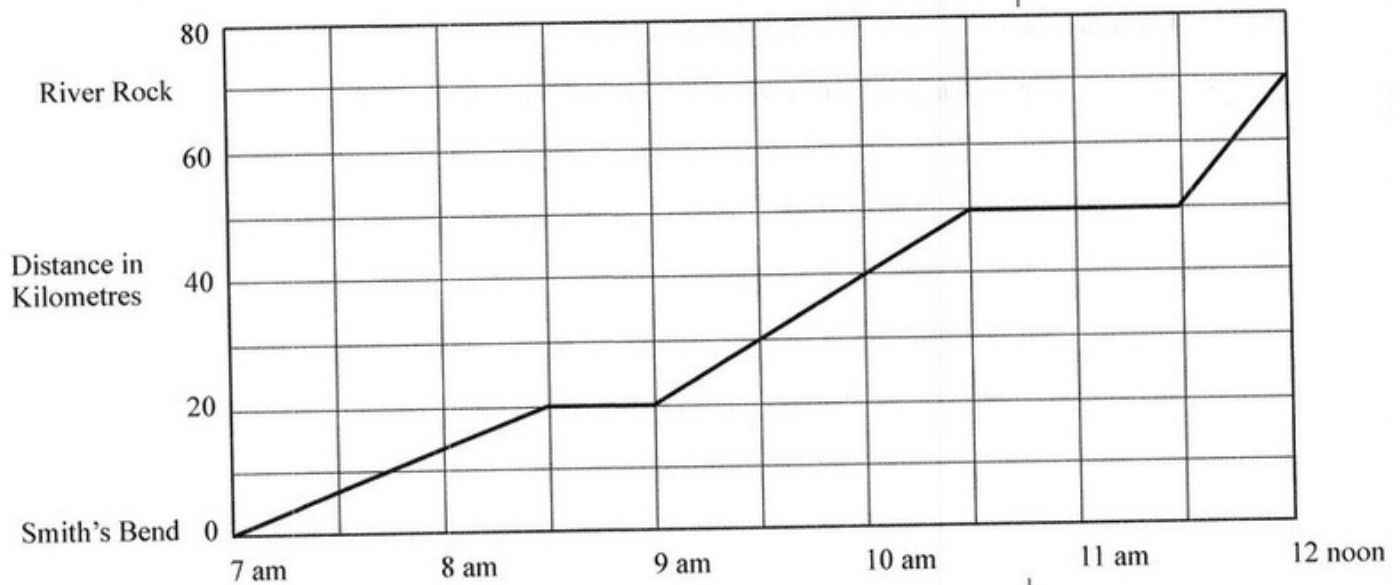
(vi) measure and write down the size of angle PRQ [1]

(b) What type of triangle is PQR?

Answer: _____ [1]



17. The graph below represents a bicycle ride from Smith's Bend to River Rock.



- (a) At what time did the cyclist make his FIRST stop after leaving Smith's Bend?

Answer: _____ [1]

- (b) Calculate the total time the cyclist stopped altogether?

Answer: _____ [1]

- (c) How many kilometres away from River Rock was the cyclist at 10:30 am?

Answer: _____ [1]

- (d) What is the distance between Smith's Bend and River Rock?

Answer: _____ [1]

- (e) How long did the journey from Smith's Bend to River Rock take (excluding stops)?

Answer: _____ [2]

- (f) Calculate the average speed of the journey (excluding stops)

Answer: _____ [3]



18. (a) Place the correct letter from Column B besides the Correct Symbol in Column A.

	COLUMN A – SYMBOL	COLUMN B – MEANING
	1. $\notin$	A. The complement
	2. $\subset$	B. Intersection
	3. $\cup$	C. Is not a member of
	4. $\cap$	D. Union
		E. Subset of
		F. The number of elements

[4]

- (b) Set E contains the even numbers less than 11.

- (i) List all the members of set E.

Answer: { _____ } [2]

- (ii) State $n(E)$

Answer: _____ [1]

Set P is the prime numbers less than 8.

- (iii) State the members of Set P

Answer: { _____ } [2]

- (iv) List the members of $P \cap E$.

Answer: { _____ } [1]



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