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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2016**

0044 MATHEMATICS

PAPER 1 (50 Marks)

Thursday **2 JUNE 2016** 9:00 A.M.–10:00 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 [].

Answer **ALL** questions in the spaces provided. Show all necessary working.

1. (a)
$$\begin{array}{r} 3178 \\ +4962 \\ 2450 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

(b)
$$\begin{array}{r} 8032 \\ -4781 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

(c)
$$\begin{array}{r} 3117 \\ \times 7 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

(d)
$$5 \overline{)5225}$$

Answer: _____ [1]

2. Write $600 + 40 + 4$ in standard form.

Answer: _____ [1]

3. Write **ALL** the one digit prime numbers.

Answer: _____ [2]

4. List

(a) a multiple of 3 between 21 and 25.

Answer: _____ [1]

(b) a prime number between 21 and 25.

Answer: _____ [1]

5. On a scale, 1 inch represents 600 miles. How many miles would $\frac{3}{4}$ inch represent?

Answer: _____ miles [2]

6. Simplify:

$$63 \div 9 \times 7 + 2$$

Answer: _____ [3]

7. Measure and write down the length of **AB**. Give the answer in inches.

A _____ **B**

Answer: _____ inches [1]

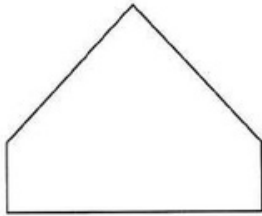
8. Write $<$, $>$ or $=$ in the space to make each statement true.

(a) 36.38 _____ 33.68 [1]

(b) 9065 _____ 9165 [1]

(c) $\frac{1}{5}$ _____ 0.20 [1]

9. (a) Give the special name for the polygon below.



Answer: _____ [1]

(b) Draw in the line(s) of symmetry on the polygon above. [1]

10. Lucy made 254 cupcakes for a bake sale. 8 cupcakes **fill** a box.



(a) How many boxes can Lucy **fill** with the cupcakes she baked?

Answer: _____ boxes [2]

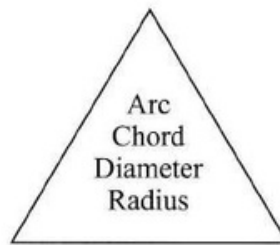
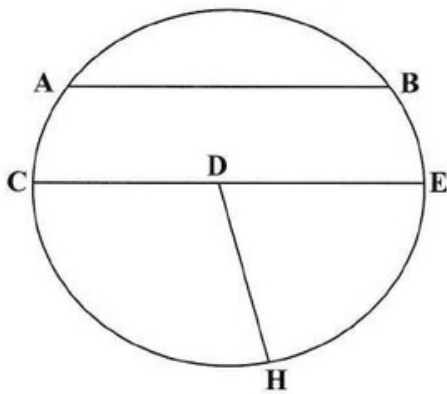
(b) How many cupcakes are left over?

Answer: _____ cupcakes [1]

11. Ann has \$96. Brenda has \$130. How much money should Brenda give to Ann so that they both have the same amount of money?

Answer: \$ _____ [3]

12. A circle with centre **D** is drawn below. Use it along with the words in the triangle to name the parts of the circle in the table below.



	Part of the circle
CE	
AB	
DH	
HE	

[4]

13. Robert has the following coins in his pocket:



8 twenty five-cent pieces

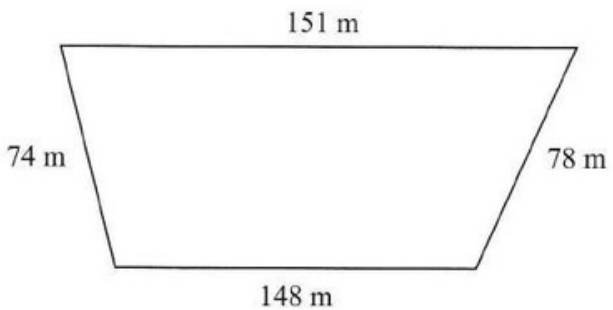
3 ten-cent pieces

4 one-cent pieces

What is the total amount of money in Robert's pocket?

Answer: \$ _____ [4]

14. The sides of a piece of land are 74 m, 78 m, 148 m, and 151 m.



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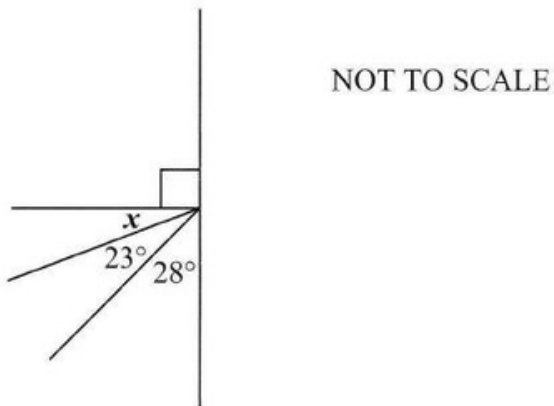
- (a) What is the perimeter of the piece of land?

Answer: _____ m [2]

- (b) Find the cost of fencing the land at \$11 per metre.

Answer: \$ _____ [2]

15. Calculate the value of the angle marked x .



Answer: _____° [2]

16. Simplify:

(a) (i) $3x + 4x - 5x$

Answer: _____ [1]

(ii) $\frac{18b^2}{9b}$

Answer: _____ [2]

- (b) When $a = 4$ and $b = -3$, calculate the value of
 $2a + b$

Answer: _____ [3]

- (c) Solve for m .

$$5m - 3 = 2m + 9$$

Answer: _____ [4]

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SCHOOL No.	CANDIDATE No.
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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2016**

0044 MATHEMATICS

PAPER 2 (100 Marks)

Monday **6 June 2016** 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.

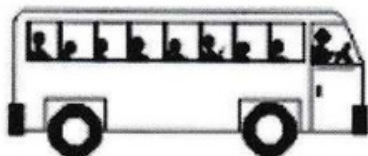
The mark for each question, or part question, is shown in brackets [].

1. Find the value of

$$5^3 - \sqrt{100}$$

Answer: _____ [3]

- 2.



A bus leaves the station every 20 minutes. The first bus leaves at 8:55 am. At what time is the third bus scheduled to leave the station?

Answer: _____ [3]

- 3.



6 at \$2.40

6 pens cost \$2.40.

Calculate:

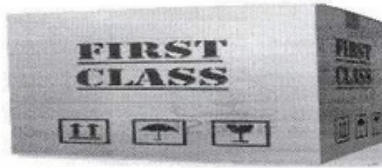
- (a) the cost of 1 pen.

Answer: _____ [2]

- (b) the cost of 9 pens.

Answer: _____ [2]

4.



Maya wants to mail a parcel by first class. The cost is 37 cents for the first ounce and 23 cents for every ounce after that. Calculate the cost of mailing a parcel that weighs 16 ounces.

Answer: \$ _____ [4]

5.



Daniel borrowed \$5000 from the bank for 2 years at 9% simple interest per annum.

Calculate

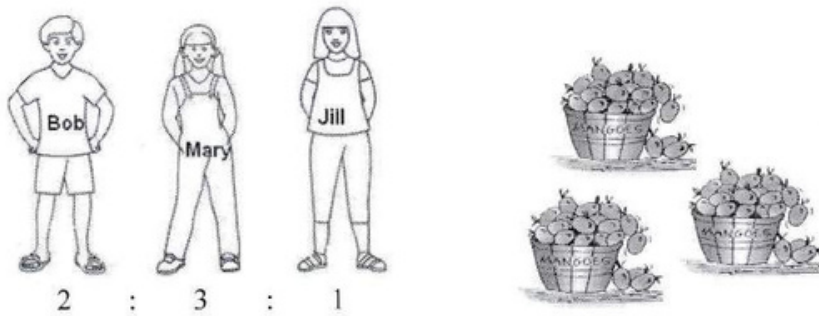
(a) how much interest Daniel is charged.

Answer: \$ _____ [3]

(b) the total amount he must repay to the bank.

Answer: \$ _____ [2]

6.



300 mangoes were shared between Bob, Mary and Jill in the ratio 2:3:1.

- (a) How many mangoes did Bob receive?

Answer: _____ mangoes [3]

- (b) How many more mangoes than Bob did Mary receive?

Answer: _____ mangoes [2]

7. (a) Using the equation $y = 2x + 1$, calculate the value of y when $x = 2$. Write it on the table below.

x	1	0	2
y	3	1	

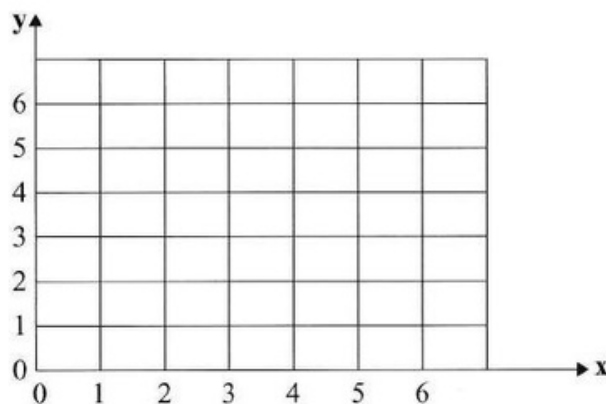
[2]

- (b) Plot the points, using the information from the table above.

[2]

- (c) Join the points to form a straight line.

[1]



8. The charts below show the weight of the students on the Boys Soccer team.



Name	Weight(kg)
Colin	47
Matthew	35
Peter	43
Eric	38

Name	Weight(kg)
Christopher	40
Alexander	38
Jonathan	45
Samuel	34

- (a) What is the modal weight of the team?

Answer: _____ kg [1]

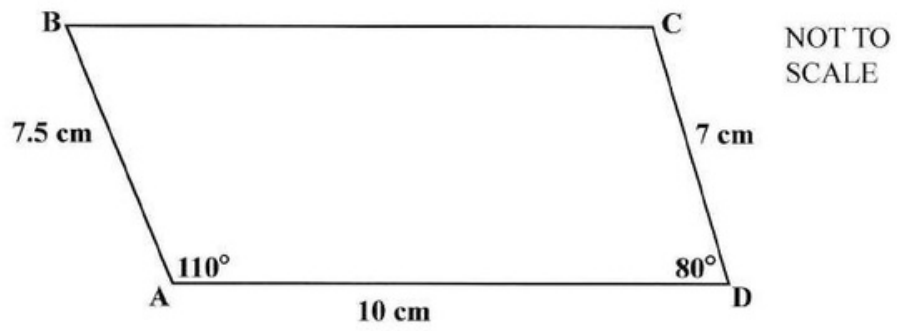
- (b) What is the mean weight of the team?

Answer: _____ kg [3]

- (c) Which boy has the same weight as the mean weight of the team?

Answer: _____ [1]

9. Make an accurate drawing of the figure below. Show **ALL** the information given on your drawing.



[6]

10. The table below shows the results when a three-sided spinner and a six-sided spinner are spun together and the results were added.

		Six sided					
		1	1	2	3	3	5
Three sided	2	3	3	4	5	5	7
	3	4	4	5	6	6	8
	3	4	4	5	6	6	8

- (a) What is the most common total?

Answer: _____ [1]

- (b) How many possible totals are there?

Answer: _____ [1]

- (c) What is the probability of getting

- (i) the most common total?

Answer: _____ [1]

- (ii) 9?

Answer: _____ [1]

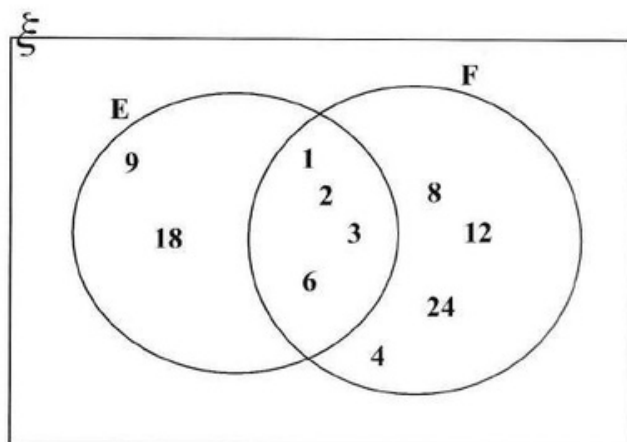
- (iii) more than 6?

Answer: _____ [2]

- (iv) a prime number?

Answer: _____ [2]

11. The Venn diagram below shows the set of factors of 18 (**E**) and 24 (**F**). Use the diagram below to answer the questions.



List

- (a) (i) the members of **E**.

Answer: { _____ } [2]

- (ii) the members of **F** only.

Answer: { _____ } [2]

- (iii) the common factors of 18 and 24.

Answer: _____ [2]

- (b) Write down the HCF of 18 and 24.

Answer: _____ [1]

12. (a) Write seven-eighths as a fraction.

Answer: _____ [1]

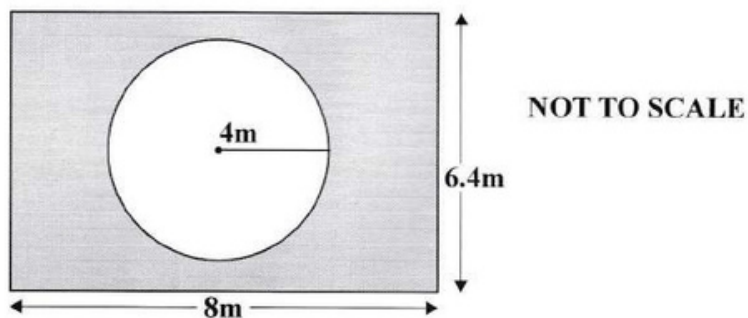
- (b) Express $3\frac{1}{2}$ as an improper fraction.

Answer: _____ [2]

- (c) Add seven-eighths and $3\frac{1}{2}$.

Answer: _____ [3]

13. A circular pool was built in a rectangular playground



- (a) Using $\pi = 3$, calculate the area of the pool.

Answer: _____ m^2 [3]

- (b) Calculate the area of the playground.

Answer: _____ m^2 [2]

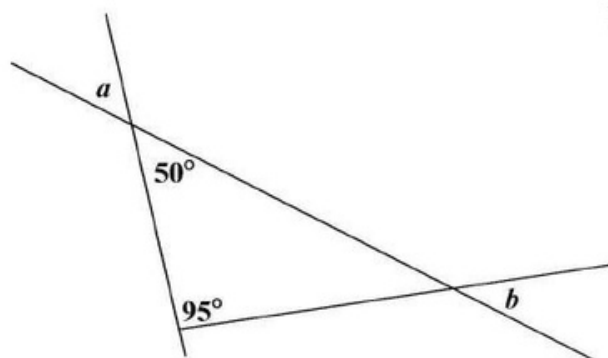
- (c) Calculate the area of the ground surrounding the pool.

Answer: _____ m^2 [2]

14. Calculate the size of the lettered angles.

(a)

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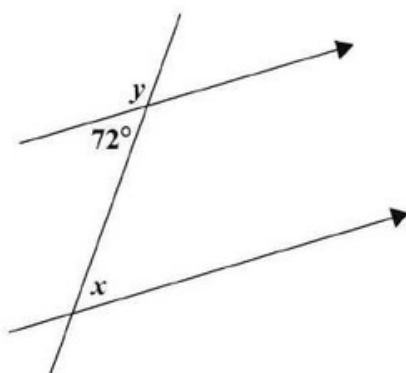


Answer: $a =$ _____ $^\circ$ [1]

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

(b)

NOT TO SCALE



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

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

15. Mr. Smith is y years old. His son George is 21 years younger.

(a) Write an expression using y to show his son's age.

Answer: _____ years old [1]

(b) (i) Write an expression to show their total ages.

Answer: _____ years [1]

(ii) Write the answer to (b) (i) in its simplest form.

Answer: _____ years [1]

The sum of their ages is 59 years.

(c) (i) Write an equation to show this information.

Answer: _____ years [1]

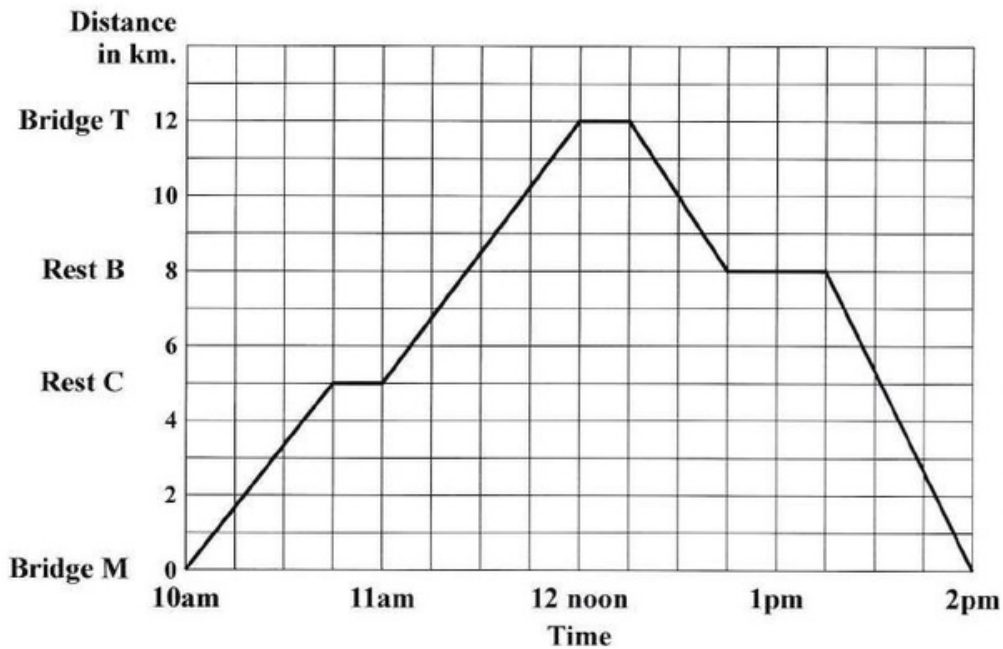
(ii) Solve your equation formed in (c)(i)

Answer: _____ years [3]

(d) Write the age of the son.

Answer: _____ years [2]

16. The graph shows an athlete on a run from **Bridge M** to **Bridge T** and back.



- (a) How long does the athlete stop altogether?

Answer: _____ hour(s) [2]

- (b) At what time does he arrive at **Bridge T**?

Answer: _____ [1]

- (c) At what time does he arrive at Rest stop **B** on the **RETURN** run?

Answer: _____ [1]

- (d) Calculate the **TOTAL** distance ran.

Answer: _____ km [2]

- (e) Calculate the time taken for the entire run.

Answer: _____ hours [1]

- (f) Calculate the mean speed for the entire journey.

Answer: _____ km/h [2]

17. Mary purchased the items below from the store.

- (a) Complete the table to show each total then the grand total.

Item	Cost Price	Total
3 Shirts	\$25.50 each	
1 pair tennis shoes	\$89 per pair	
6 pairs of socks	\$6.90 per two pairs	
GRAND TOTAL		

[6]

There is a 7.5% VAT (value added tax) added to the bill.

- (b) How much money is charged for VAT?

Answer: \$ _____ [3]

- (c) What is the **TOTAL** amount Mary paid the cashier for the items?

Answer: \$ _____ [1]