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INITIALS	SURNAME

**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2013**

0044 MATHEMATICS

PAPER 1 (50 Marks)

Wednesday **29 May 2013** 9:00 A.M.–10:00 A.M.

INSTRUCTIONS TO CANDIDATES

Write your school number, candidate number, surname and initials in the spaces at the top of this page.

Answer **ALL** questions in the spaces provided on this 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 **8** printed pages.

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

1. (a)
$$\begin{array}{r} 8137 \\ + 604 \\ \hline 5162 \\ \hline \end{array}$$

Answer: _____ [1]

(b)
$$\begin{array}{r} 7059 \\ - 5896 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

2. (a)
$$\begin{array}{r} 4612 \\ \times 5 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

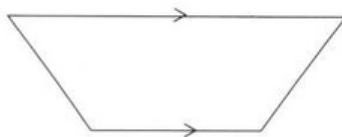
(b)
$$7 \overline{)8414}$$

Answer: _____ [1]

3. Write six hundredths as a decimal.

Answer: _____ [1]

4. Give the special name for the quadrilateral shown below.



Answer: _____ [1]

5. Write $4000 + 30$ as an ordinary number.

Answer: _____ [1]

6. Calculate the median of the set of numbers 72, 85, 76, 94, 83.

Answer: _____ [2]

7. Use your ruler, pencil and protractor to draw a 70° angle with **B** as the vertex of the angle.

_____ [2]
B

8. A highway is 45 km in length. $\frac{2}{3}$ of the highway is paved. How many km of the Highway is paved?

Answer: _____ [2]

9. Insert $<$, $>$, or $=$ in the circle to make each statement true.

(a) 2.34 2.301 [1]

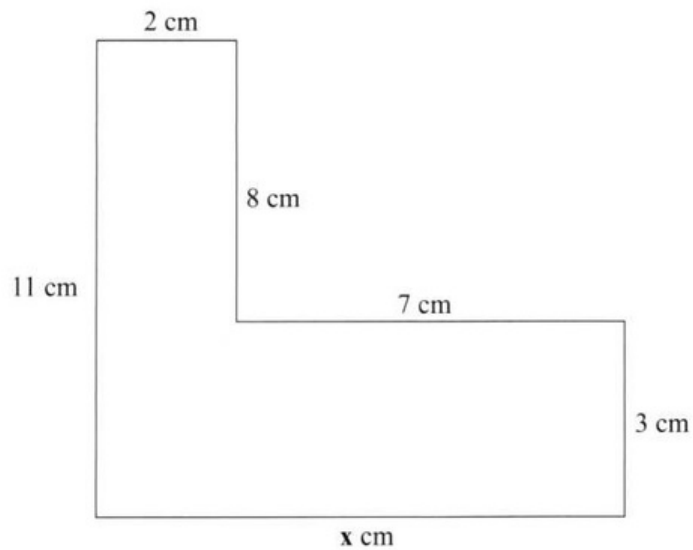
(b) $3 + 3$ 3^2 [1]

(c) $\frac{1}{4}$ 25% [1]

10. Write the Highest Common Factor of 12 and 16.

Answer: _____ [3]

11.



Calculate

- (a) the length of the side marked x ,

Answer: _____ [1]

- (b) the perimeter of the shape.

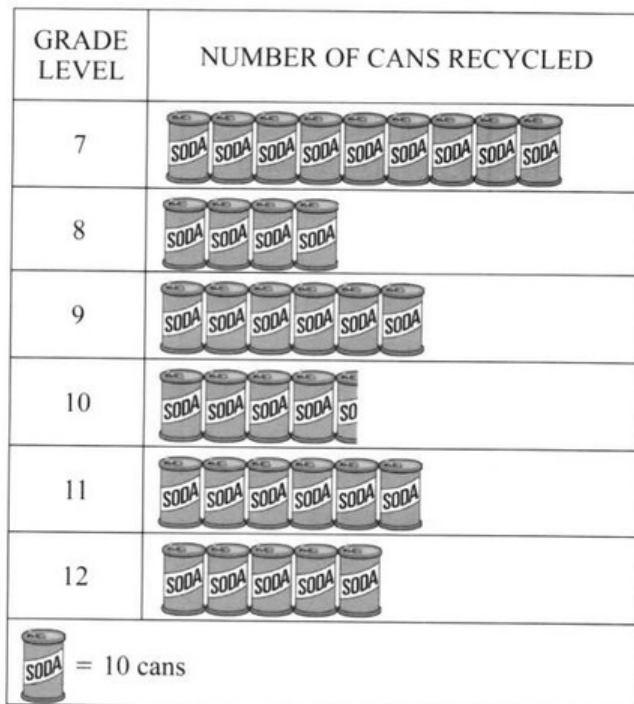
Answer: _____ [2]

12. Evaluate $\sqrt{81} + 3^3$

Answer: _____ [3]

13. Use the pictograph to answer the following questions.

RECYCLED CANS



- (a) Which grade level recycled the most cans?

Answer: _____ [1]

- (b) Which grade level recycled exactly 45 cans?

Answer: _____ [1]

- (c) Which grade levels recycled the same amount of cans?

Answer: _____ [1]

14.



Bob earns \$2900 per month. 15% of his salary is deducted for his car loan.

- (a) How much money does he pay on his loan each month?

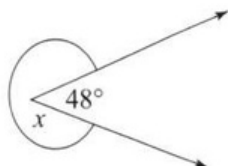
Answer: \$ _____ [2]

- (b) How much money does he have left after paying on his loan?

Answer: \$ _____ [2]

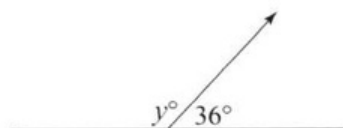
15. Calculate the size of the angle marked x and the angle marked y .

(i)



Answer: _____ ° [2]

(ii)



Answer: _____ ° [2]

16. I completed $\frac{2}{3}$ of my project last month and $\frac{1}{4}$ of it this week.

(a) What fraction of my project is completed?

Answer: _____ [3]

(b) What fraction of my project is not completed?

Answer: _____ [1]

-
17. (a) Simplify

$$6f^2 \times 5f$$

Answer: _____ [2]

(b) Solve the equation for g .

$$4g + 6 = 34$$

Answer: _____ [3]

18. A fruit basket contains 5 apples, 3 oranges and 4 mangoes. One fruit is chosen at random.



What is the probability that it is

- (a) an apple?

Answer: _____ [2]

- (b) an orange?

Answer: _____ [1]

- (c) a mango?

Answer: _____ [1]

- (d) a fruit?

Answer: _____ [1]

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INITIALS	SURNAME

MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2013

0044 MATHEMATICS

PAPER 2 (100 Marks)

Thursday **30 May 2013** 9:00 A.M.–11:00 A.M.

INSTRUCTIONS TO CANDIDATES

Write your school number, candidate number, surname and initials in the spaces at the top of this page.

Answer **ALL** questions in the spaces provided on this 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.

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

1. Given that $n < 3$, circle the number that does not satisfy the inequality.

5 2 0 -1 [1]

2. Calculate the value of $2^3 \times 5$.

Answer: _____ [2]

3. Write down the next two terms in the sequence

1, 4, 7, 10, _____, _____ [2]

4. Write down the numbers between 20 and 31 which have two factors only.

Answer: _____ [2]

5. Express 43.721 correct to

(a) 2 decimal places,

Answer: _____ [1]

(b) 2 significant figures.

Answer: _____ [1]

6. Calculate the value of $27 + 3 \times 4 - 8$.

Answer: _____ [2]

7.



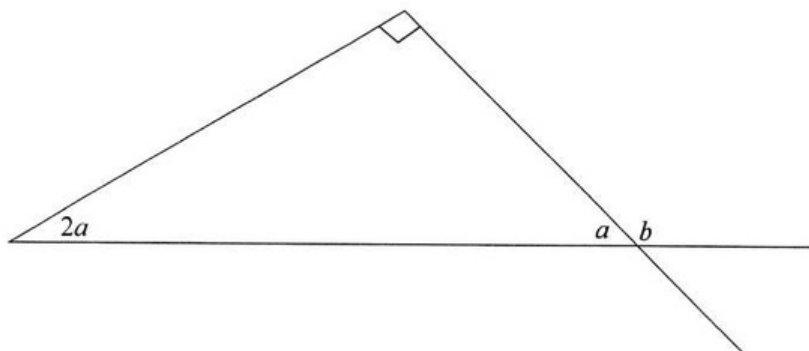
Stan arrived at the airport at 5:20 pm. His plane is due to leave at 8:10 pm.
How long will Stan have to wait before his plane leaves?

Answer: _____ [2]

8. Add the product of 14.6 and 0.4 to the quotient of 3.2 and 8.

Answer: _____ [4]

9. Calculate the size of $\angle a$ and $\angle b$.



Answer: $\angle a$ _____ $^{\circ}$ [2]

Answer: $\angle b$ _____ $^{\circ}$ [2]

10.



- (a) Paul scored 17 out of 20 on a test. Calculate his percentage score.

Answer: _____% [2]

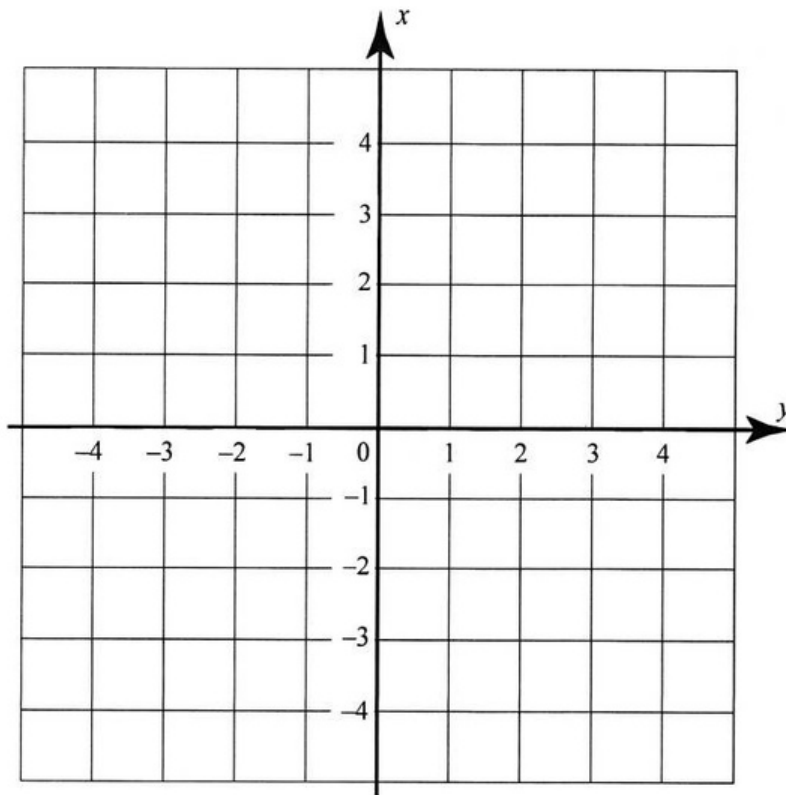
- (b) On another test he scored 75%. If that test was out of 24 marks, how many marks did he receive?

Answer: _____ [2]

11. Evaluate $3\frac{3}{5} + 2\frac{2}{15}$

Answer: _____ [4]

12. Use the grid below to answer this entire question.

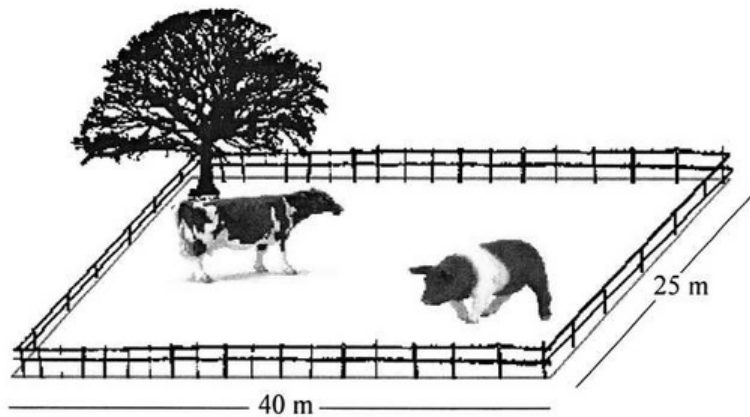


- (a) (i) Draw the line $y = 3$. [1]
 (ii) Draw the line $x = 4$. [1]
 (b) Write the coordinates of the point where the two lines intersect.

Answer: _____ [2]

- (c) Shade the region of the graph where $y > 3$. [1]

13.



A field measures 25 m by 40 m.

- (a) Calculate the area of the field.

Answer: _____ m^2 [2]

A mat of grass covers an area of 9 square metres.

- (b) Calculate the number of grass mats which will be needed to cover the entire field.

Answer: _____ mats [2]

Grass mats are sold at \$7 per mat.

- (c) How much would it cost to cover the entire field with grass mats?

Answer: \$ _____ [2]

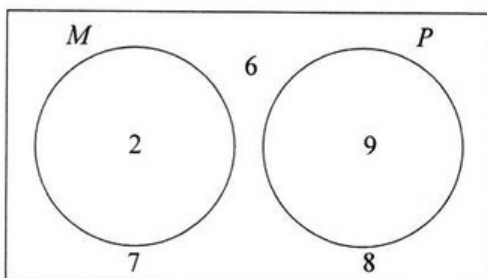
14. (a) Simplify $4(x - 3) - 3(x - 5)$

Answer: _____ [3]

- (b) When $x = 6$ and $y = 2$, calculate the value of $3x + y^2$

Answer: _____ [3]

15. Use the Venn diagram below to answer the questions which follow.



List the member(s) of

- (i) M ,

Answer: { _____ } [1]

- (ii) P ,

Answer: { _____ } [1]

- (iii) $M \cup P$,

Answer: { _____ } [1]

- (iv) $M \cap P$,

Answer: { _____ } [1]

- (v) M' ,

Answer: { _____ } [2]

- (vi) ε .

Answer: { _____ } [2]

16.



A woman earns \$7.20 per hour when she works a 40 hour week.

- (a) Calculate her weekly pay.

Answer: \$ _____ [2]

Overtime is paid at double time.

- (b) Calculate how much is paid for one hour of overtime.

Answer: \$ _____ [1]

Last week she worked 46 hours.

- (c) How many hours of overtime did she work?

Answer: _____ hrs. [1]

- (d) Calculate her overtime pay.

Answer: \$ _____ [2]

- (e) Calculate her total pay for that week.

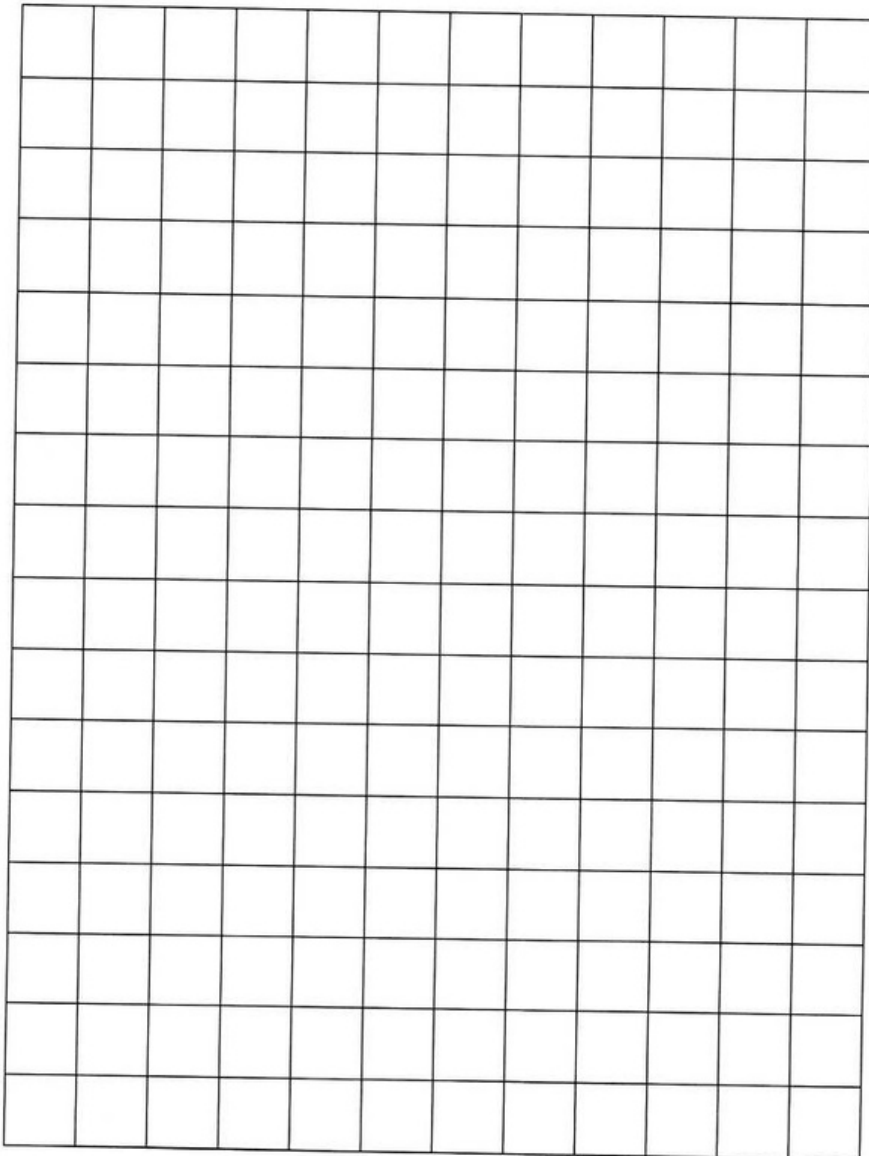
Answer: \$ _____ [2]

17. Forty students were asked how many books they read during the holidays. The responses are shown on the table below.

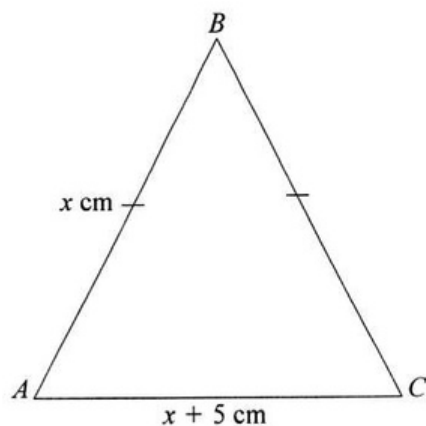
Number of Books Read	Frequency
1	4
2	9
3	5
4	15
5	7

- (a) Use a scale of 2 cm = 1 unit on the x -axis (number of books) and 1 cm = 1 unit on the y -axis (frequency) to represent the responses on a vertical bar graph. [7]
- (b) State the modal number of books read.

Answer: _____ [1]



18. Triangle ABC is an isosceles triangle. AB is x cm long, and AC is $(x + 5)$ cm long.



- (a) State the length of BC .

Answer: _____ cm [1]

The perimeter of the triangle is 32 cm.

- (b) Form an equation for the perimeter of the triangle.

Answer: _____ [2]

- (c) Solve your equation formed in part (b).

Answer: _____ [3]

- (d) State the length of

$AB =$ _____ cm [1]

$AC =$ _____ cm [1]

19. (a) Using AC as the base of your triangle, **construct** triangle ABC in which $AB = 6$ cm, $AC = 10$ cm and $BC = 8$ cm. [4]
- (b) Bisect the side AC . [2]
- (c) Bisect angle ACB . [2]
- (d) Label the point where the two bisectors intersect, X . [1]
- (e) Measure and write down the length of AX .

Answer: _____ cm [1]

20.

 $2 : 3$

Bradley and Melissa share \$2000 in the ratio $2 : 3$.

- (a) How much money does Bradley receive?

Answer: \$ _____ [3]

- (b) How much does Melissa receive?

Answer: \$ _____ [2]

Melissa used her share as a down payment on a dining room set costing \$1,500.

- (c) What is the balance she owes on the dining room set?

Answer: \$ _____ [1]

She pays the balance in 10 equal payments.

- (d) Calculate the amount of each payment.

Answer: \$ _____ [2]

Bradley invests his share at 4% per annum for 2 years simple interest at RR Savings Bank.

- (e) How much interest does he earn?

Answer: \$ _____ [3]

- (f) What is the total amount Bradley has in RR Savings Bank after 2 years?

Answer: \$ _____ [1]
