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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2014**

0044 MATHEMATICS

PAPER 1 (50 Marks)

Wednesday **28 May 2014** 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 paper.

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 [].



This question paper consists of 7 printed pages.

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

1. (a)
$$\begin{array}{r} 6054 \\ +2137 \\ \hline 856 \\ \hline \end{array}$$

Answer: _____ [1]

(b)
$$\begin{array}{r} 4937 \\ -2918 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

(c)
$$\begin{array}{r} 5108 \\ \times 7 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

(d)
$$4 \overline{)6084}$$

Answer: _____ [1]

2.

January 2014

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Write down, as a fraction, "three days out of the total number of days in January".

Answer: _____ [1]

3. Round 62.978 to the nearest whole number.

Answer: _____ [1]

4. I am facing south west. I turn through an angle of 90° in a clockwise direction.
In which direction am I now facing?



Answer: _____ [1]

5. Write down the next two terms in the sequence

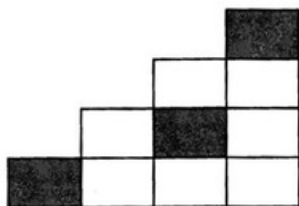
16, 14, 12, 10, _____, _____. [2]

6. The clock shows 6:30 p.m. What time was it 4 hours and 30 minutes before 6:30 p.m.?



Answer: _____ [2]

7.



- (a) What fraction of the diagram is **NOT** shaded?

Answer: _____ [1]

- (b) Express the **shaded part** as a decimal.

Answer: _____ [1]

8. In prime factor form:

$$8 = 2 \times 2 \times 2$$

$$12 = 2 \times 2 \times 3$$

What is the LCM (lowest common multiple) of 8 and 12?

Answer: _____ [2]

9. How much greater than 3.93 is 7.24?

Answer: _____ [2]

10. Fill in the square and cube of the given number.

Number	Number squared	Number cubed
3		

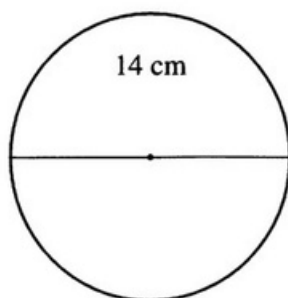
[2]

11. Arrange these fractions in order from the least to the greatest.

$$\frac{1}{2}, \frac{5}{6}, \frac{2}{3}, \frac{1}{12}$$

Answer: _____ [4]

12. A circle has a diameter of 14 cm. Calculate the area of the circle. ($\pi = \frac{22}{7}$)



Answer: _____ cm² [3]

13. (a) Express $\frac{1}{5}$ as a percentage.

Answer: _____ [2]

- (b) Calculate 15% of \$200.

Answer: \$ _____ [2]

14. Use the symbols $<$, $>$ or $=$ to make each statement true.

(a) 5 cm 5 mm

(b) 500 kg 500 g

(c) 6 l 6000 ml [3]

15. Match the words in column 1 with the phrases in column 2 by putting the correct letter in the space provided.

1	2
(a) Circumference	_____ plane figure with 6 sides.
(b) Coefficient	_____ total distance around a circle.
(c) Hexagon	_____ angle greater than 180° but less than 360° .
(d) Reflex	_____ number before the variable.
(e) Quotient	_____ the result of division.

[5]

16. (a) Simplify:

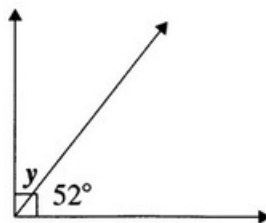
$$3x + 4y + 5x - 3y$$

Answer: _____ [2]

- (b) $C = \frac{88}{b+1}$. Calculate the value of C when $b = 10$.

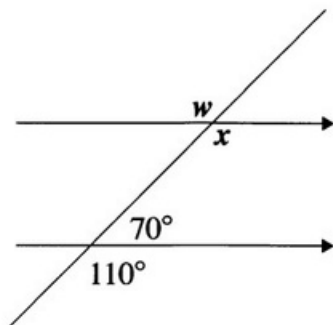
Answer: _____ [2]

17. (a) Calculate the size of angle y .



Answer: _____ $^\circ$ [2]

- (b) Calculate the size of angle w and angle x .



Answer: $w =$ _____ $^{\circ}$ [1]

$x =$ _____ $^{\circ}$ [2]

18.



James had $\$x$. He lost $\$5$.

- (a) Write an algebraic expression for the amount he has left.

Answer: $\$$ _____ [1]

James now has $\$2$ left.

- (b) Write an algebraic equation to show all of this information.

Answer: $\$$ _____ [1]

- (c) Solve your equation formed in (b) to find " x ".

Answer: $x =$ _____ [1]

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SCHOOL No.	CANDIDATE No.
INITIALS	SURNAME

**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2014**

0044 MATHEMATICS

PAPER 2 (100 Marks)

Thursday **29 May 2014** 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 [].

This question paper consists of **13** printed pages.

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

1. List **ALL** the natural numbers that are greater than 3 but less than 8.

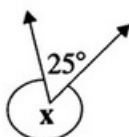
Answer: _____ [2]

2. Write down the following numbers for addition then add:

6.83; 41.2; 2.078

Answer: _____ [2]

3. The acute angle measures 25° . Calculate the size of the reflex angle, x .



Answer: _____ $^\circ$ [2]

4. A model train is made using a scale of 1 cm to represent 20 m. Calculate the actual length of the train if the model length is 6.5 cm.



Answer: _____ m [2]

5.



A flight leaves at 2:25 p.m. to travel from Presley to Newsley. The flight takes 7 hours and 13 minutes.

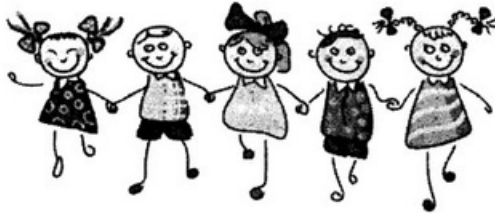
- (a) Calculate at what time the plane should arrive at Newsley.

Answer: _____ [2]

- (b) Write your answer from (a) in 24-hour clock time.

Answer: _____ [1]

6.



The mean age of 5 children is 9 years.

- (a) Calculate the TOTAL age of the 5 children.

Answer: _____ years [2]

Four of the children's ages are 10, 8, 9, and 6 years.

- (b) Calculate the age of the fifth child.

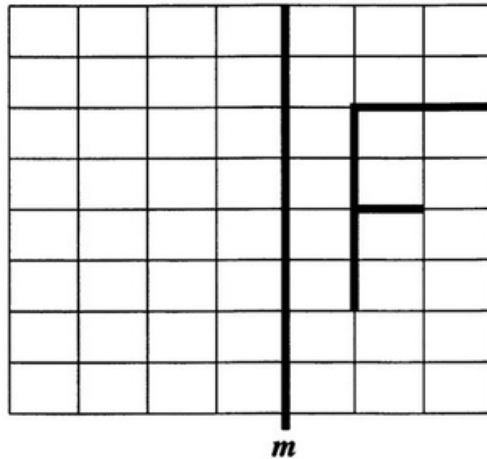
Answer: _____ years [3]

7. Evaluate

$$3\frac{1}{2} + 4\frac{3}{10}$$

Answer: _____ [5]

8. Reflect the shape in the line labelled *m*.



[2]

- 9.



A tank holds 1600 litres of water. $\frac{2}{5}$ of the water was used.

- (a) How many litres of water were used?

Answer: _____ litres [2]

- (b) Write as a ratio in lowest terms the litres of water used: to the litres of water the tank can hold.

Answer: _____ [2]

10. Evaluate $6^2 + 3(7 - 2)$

Answer: _____ [3]

11.



A bag contains 3 red marbles, 4 blue marbles and 2 black marbles. One marble is chosen at random. What is the probability that the marble is

(a) red?

Answer: _____ [1]

(b) blue?

Answer: _____ [1]

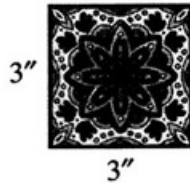
(c) black or red?

Answer: _____ [1]

(d) green?

Answer: _____ [1]

12.



NOT DRAWN TO SCALE

A square tile measures 3 inches by 3 inches. Calculate

- (a) the area of one tile.

Answer: _____ ins² [2]

A counter top with an area of 1206 square inches is to be covered with these square tiles.

- (b) How many tiles are needed to cover the counter top?

Answer: _____ tiles [2]

13.



A church choir has 80 members. There are 10 more females than males.

- (a) How many choir members are male?

Answer: _____ [3]

- (b) What fraction of the choir members is female? Give your answer in lowest terms.

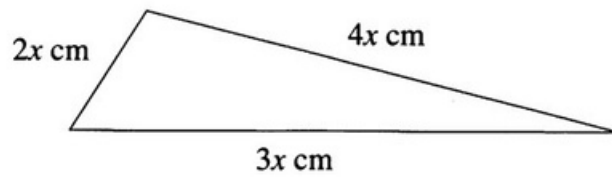
Answer: _____ [2]

14. (a) Simplify

$$2(x - 5y) + 6y$$

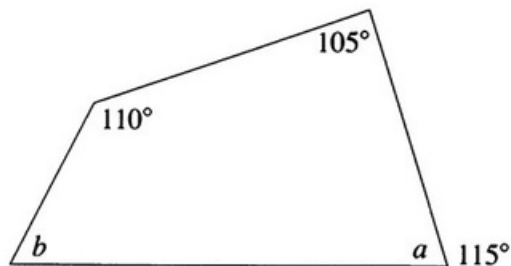
Answer: _____ [3]

- (b) The lengths of a triangle are $2x$ cm, $3x$ cm and $4x$ cm. The perimeter of the triangle is 81 cm. Calculate the value of x .



Answer: _____ cm [4]

15. Calculate the value of angle a and the value of angle b .

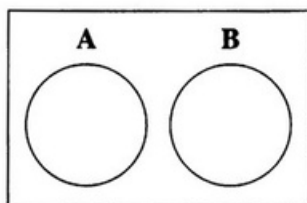


NOT TO SCALE

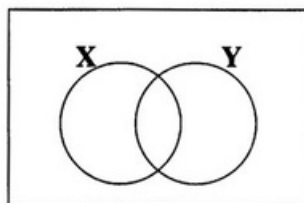
Answer: $a =$ _____ $^\circ$ [2]

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

16. (a) Shade the region indicated below each Venn diagram.



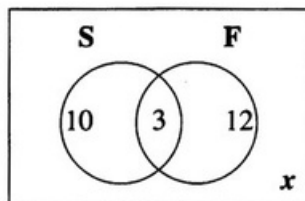
$A \cup B$



X'

[2]

- (b) The Venn diagram represents 30 students of grade 9 who study Spanish (S) and French (F).



- (i) Calculate the value of x .

Answer: _____ [2]

- (ii) How many students study both Spanish and French?

Answer: _____ [1]

- (iii) How many students study Spanish?

Answer: _____ [2]

17.



Islandar



Caybal

A speed boat left Islandar at noon heading for Caybal a distance of 120 km. The boat takes one hour and 20 minutes. Calculate the average speed of the boat.

Answer: _____ [3]

18.



Patsy bought 6 dresses costing a TOTAL of \$300 for her shop. She sold each dress for \$61.

Calculate

- (a) the total amount of money she made from the sale of all of the dresses.

Answer: \$ _____ [2]

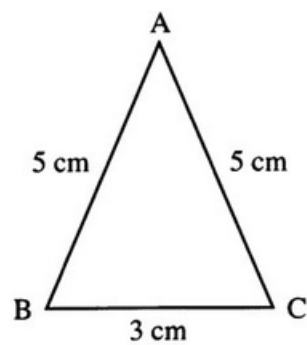
- (b) the total profit she made.

Answer: \$ _____ [2]

- (c) the percentage profit made on the cost price.

Answer: _____ % [2]

19. Below is a **SKETCH** of an isosceles triangle labelled ABC.



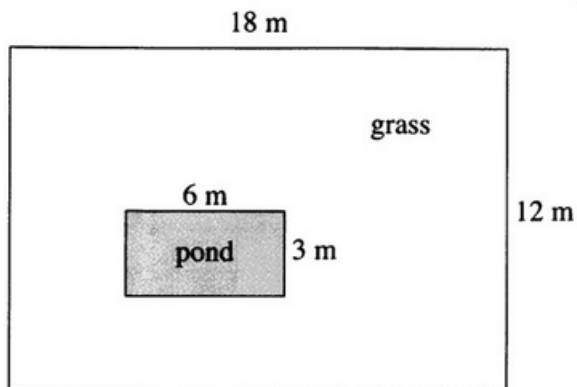
- (a) Using a ruler, pencil and a pair of compasses, **construct** triangle ABC, using the same measurements.

[5]

- (b) Measure and write down the size of angle ABC.

Answer: _____° [1]

20. The diagram shows a garden with a pond in it surrounded by grass.



Calculate

- (a) the length of fencing needed to go completely around the pond.

Answer: _____ m [2]

- (b) the area of the pond.

Answer: _____ m² [2]

- (c) the area of the grassy region.

Answer: _____ m² [2]

21. The table shows the number of G-malts sold by a school lunch vendor in one week.

Days	Mon	Tues	Wed	Thurs	Fri
Number of G-malts	23	25	5	10	14

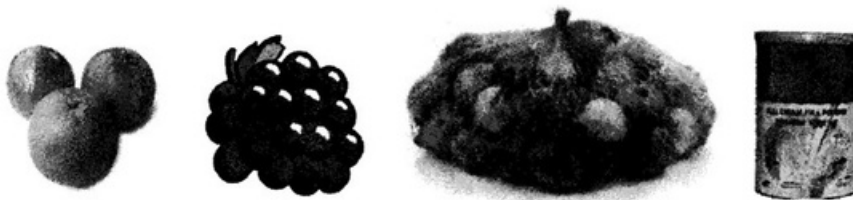
- (a) Draw a bar graph to show this information, putting the days on the horizontal axis.

[7]

- (b) How many G-malts in total, were sold in that week?

Answer: _____ [1]

22. (a) Calculate cost of each item and the total bill for the following items.



Item	Cost	
9 oranges at 3 for 99¢		[2]
3½ pounds of grapes at \$4 per pound		[2]
1 bag of onions at \$2.99 each		[1]
6 cans of cream at \$1.09 each		[2]
TOTAL		[1]

- (b) Mr. Green paid with a \$50 bill. Calculate his change.

Answer: \$ _____ [2]