0044/1 **BJC**

FOR EXAMINER'S USE ONLY	
TOTAL MARKS	

SCHOOL No.	CANDIDATE No.
INITIALS	SURNAME

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.

LIVEWORKSHEETS

ROUGH WORK

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

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

Answer: _____ [1]

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

Answer: _____ [1]

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

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]

LIVEWORKSHEETS

ROUGH WORK

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.?

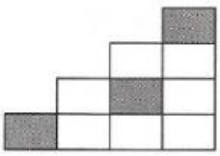


Answer: _____ [2]

LIVEWORKSHEETS

ROUGH WORK

7.



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

Answer: _____ [1]

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

Answer: _____ [1]

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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]

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9. How much greater than 3.93 is 7.24?

Answer: _____ [2]

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

Number	Number squared	Number cubed
3		

[2]

LIVEWORKSHEETS

ROUGH WORK

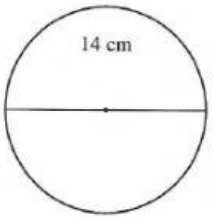
11. Arrange these fractions in order from the least to the greatest.

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

Answer: _____ [4]

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



Answer: _____ cm^2 [3]

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

Answer: _____ [2]

(b) Calculate 15% of $200.

Answer: $ _____ [2]

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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]

LIVEWORKSHEETS

ROUGH WORK

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]

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16. (a) Simplify:

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

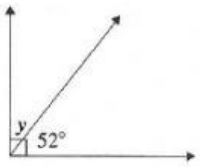
Answer: _____ [2]

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

Answer: _____ [2]

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

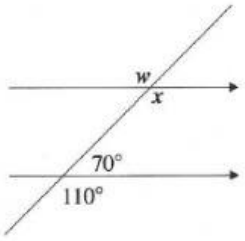


Answer: _____° [2]

LIVEWORKSHEETS

ROUGH WORK

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



Answer: w = _____° [1]

x = _____° [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]

End]

LIVEWORKSHEETS