

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.

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[Turn over

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

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

Answer: _____ [1]

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

Answer: _____ [1]

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

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".

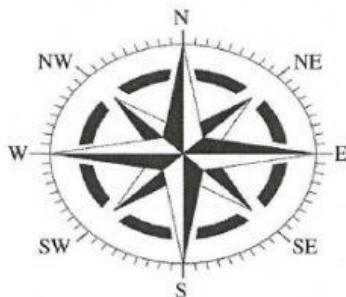
Answer: _____ [1]

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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

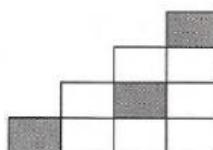
16, 14, 12, 10, _____, _____ [2]

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]

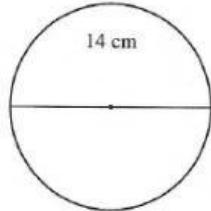
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11. Arrange these fractions in order from the least to the greatest.

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

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:

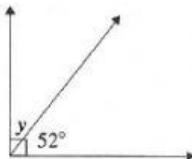
$$3x + 4y + 5x - 3y$$

Answer: _____ [2]

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

Answer: _____ [2]

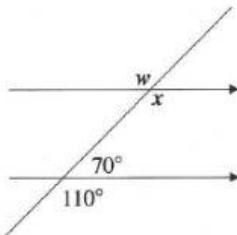
17. (a) Calculate the size of angle y .



Answer: _____ ° [2]

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



Answer: $w = \underline{\hspace{2cm}}$ ° [1]

$x = \underline{\hspace{2cm}}$ ° [2]

18.



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

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

Answer: \$ $\underline{\hspace{2cm}}$ [1]

James now has \$2 left.

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

Answer: \$ $\underline{\hspace{2cm}}$ [1]

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

Answer: $x = \underline{\hspace{2cm}}$ [1]