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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2015**

0044 MATHEMATICS

PAPER 1 (50 Marks)

Friday **29 May 2015** 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 [].

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

1. (a)
$$\begin{array}{r} 4026 \\ 5432 \\ + 850 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

(b)
$$\begin{array}{r} 6954 \\ - 3163 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

2. (a)
$$\begin{array}{r} 4012 \\ \times 5 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

(b)
$$6 \overline{)9836}$$

Answer: _____ [1]

3. Give the value of the 9 in 8.392.

Answer: _____ [1]

4. Give the length of the line segment **AB**.



Answer: _____ inches [1]

5. **R E A D**

Which of the above letters has **no** line of symmetry?

Answer: _____ [1]

6. (a) Write the fraction that represents a value greater than 1.

$$\frac{1}{7} \quad \frac{2}{3} \quad \frac{16}{16} \quad \frac{8}{7}$$

Answer: _____ [1]

- (b) Write the missing value in each of the circles below:

(i) $\frac{5}{9} = \frac{\bigcirc}{45}$

Answer: _____ [1]

(ii) $\frac{16}{28} = \frac{4}{\bigcirc}$

Answer: _____ [1]

7. Rental cars on BaBa Island cost \$85 per day plus a non refundable security deposit of \$125. If Mr. Smith rents a car for 2 days, how much must he pay the Rental car company?



\$85 per day

Answer: \$ _____ [2]

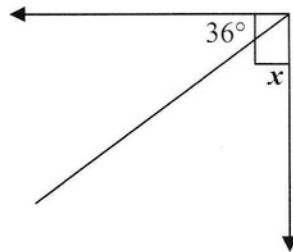
8. Determine the Highest Common Factor (HCF) of the following numbers

$$32 = 2 \times 2 \times 2 \times 2 \times 2$$

$$48 = 2 \times 2 \times 2 \times 2 \times 3$$

Answer: _____ [2]

9. Find the value of x .



Answer: _____ ° [2]

10. Samuel bought 7 comic books. If each book costs \$8.40, how much money did he spend altogether?



Comic books – \$8.40 each

Answer: \$ _____ [2]

11.



This digital clock shows 6:45. What time will the clock show in 20 minutes?

Answer: _____ [3]

12. Write as an ordinary number $6 \times 10^2 + 3 \times 10^1$

Answer: _____ [3]

13. Evaluate $\sqrt{9+5^3}$

Answer: _____ [3]

14. (a) Arrange the integers in order from **least** to **greatest**

8, -12, 0

Answer: _____ [1]

(b) Find the difference between the greatest and least integer.

Answer: _____ [2]

15. Use the words from the box below to identify the polygon shown.

Hexagon

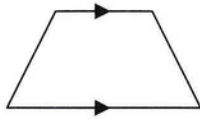
Pentagon

Triangle

Trapezium

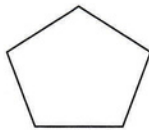
Square

(a)



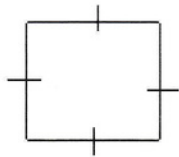
Answer: _____ [1]

(b)



Answer: _____ [1]

(c)



Answer: _____ [1]

16. In a class of 30 students, 60% of them do **not** wear glasses.

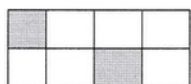
(a) What percentage **wear** glasses?

Answer: _____ % [1]

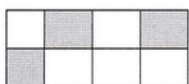
(b) How many students do **not** wear glasses?

Answer: _____ [2]

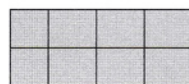
17.



A



B



C

(a) Write a fraction to represent the shaded part in

(i) A,

Answer: _____ [1]

(ii) B.

Answer: _____ [1]

(b) Find the sum represented by $A + B + C$.

Answer: _____ [2]

18. (a) Using a ruler, a pair of compasses and a pencil, construct a 60° angle at **Q**. Name the angle **PQR**. [3]

(b) Bisect angle **PQR**. [2]

19. (a) Simplify $7g + 2g - 5g$

Answer: _____ [1]

(b) If $b = 26$, find the value of $6 \times \frac{b}{2}$.

Answer: _____ [2]

(c) Solve for p .

$$4p - 8 = 12$$

Answer: _____ [2]