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| | |

# MINISTRY OF EDUCATION
# BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2012

## 0044 MATHEMATICS

### PAPER 1 (50 MARKS)

Thursday **31 May 2012** 9.00–10.00 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 booklet.

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 **10** printed pages.

ROUGH WORK

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

1. (a)
$$\begin{array}{r} 137 \\ +4062 \\ 258 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

(b)
$$\begin{array}{r} 8097 \\ -5934 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

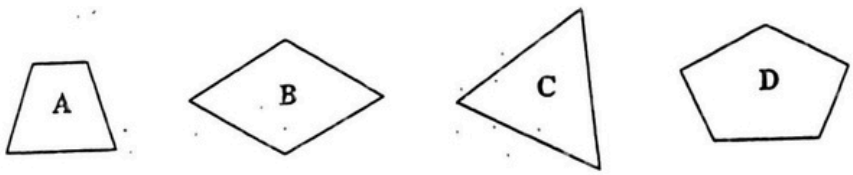
2. (a)
$$\begin{array}{r} 2870 \\ \times \quad 6 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

(b) $5\overline{)1795}$

Answer: _____ [1]

3. Write the letter of the diagram which represents a pentagon.




Answer: _____ [1]

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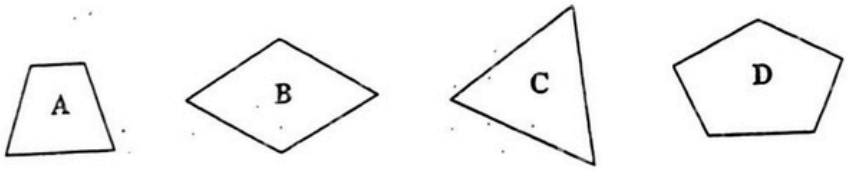


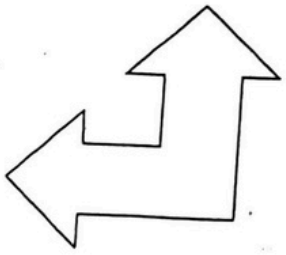

Answer: _____ [1]

ROUGH WORK

4. Round 3.463 to the nearest hundredth.

Answer: _____ [1]

5. Draw in the line(s) of symmetry for the diagram below.



Answer: _____ [1]

6. Express 0.64 as a fraction in lowest terms.

Answer: _____ [2]

7. Simplify $20 - 4 \div 2$

Answer: _____ [2]

ROUGH WORK

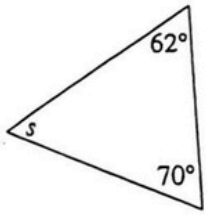
8.

Chairs – $24.99 each

Calculate the total cost of 9 chairs.

Answer: $ _____ [2]

9. Calculate the size of angle $s$.




Answer: _____ ° [2]

10. Arrange the integers below, in order of size, from the least to the greatest.

$+7, -7, 0, +3, -3$

Answer: _____ [2]

ROUGH WORK

11. Evaluate

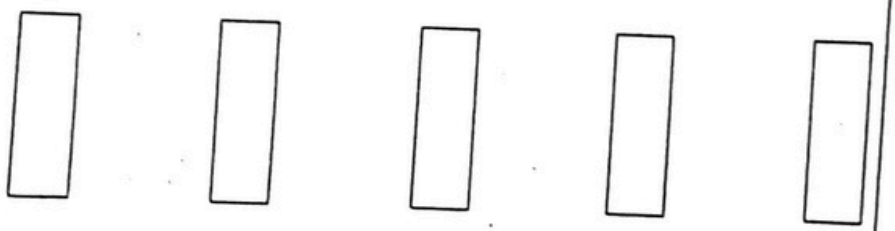
(a) $2^5 - 3^2$

Answer: _____ [3]

(b) $\sqrt{25} + \sqrt{64}$

Answer: _____ [3]

12. Five poles are each placed 110 metres apart.



(a) How far will Trevor travel when he walks from the **second** pole to the **fifth** pole?

Answer: _____ *m* [2]

(b) Express your answer in (a) as **kilometres**.

Answer: _____ *km* [1]

ROUGH WORK

13.

A call from Melon Cay to Conch Creek cost \$1.50 for the first minute then 35¢ for each additional minute. What is the total cost of a call from Melon Cay to Conch Creek which lasts 5 minutes?

Answer: \$ _____ [3]

14. From the set of numbers {51, 7, 11, 46, 93} write down

(a) one composite number.

Answer: _____ [1]

(b) one even number.

Answer: _____ [1]

(c) one multiple of 23.

Answer: _____ [1]

ROUGH WORK

15.

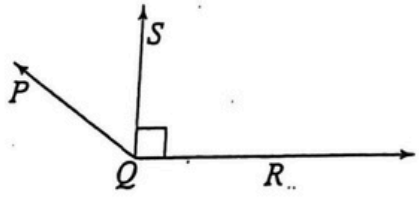
| Bob | Dan | Aaron |
|---|---|---|
| 2 | 3 | 1 |

Three brothers Bob, Dan and Aaron were given $264 to share in the ratio 2 : 3 : 1 respectively.

How much money did Dan receive?

Answer: $ _____ [3]

16.




Use the figure above to answer the questions below.

(a) _____ is an acute angle. [1]

(b) _____ is an obtuse angle. [1]

(c) _____ is a line perpendicular to another line. [1]

ROUGH WORK

17.

A Dance Club had 160 members. There was a membership increase of 5%.

(a) How many new persons joined the club?

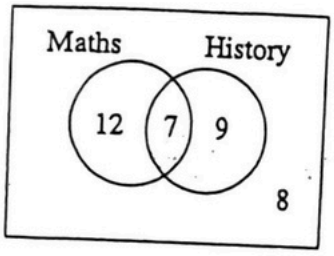
Answer: _____ [2]

(b) How many persons are now members of the Club?

Answer: _____ [2]

ROUGH WORK

18. The Venn diagram below shows the results of a survey of a class.




(a) How many students are in the class?

Answer: _____ [1]

(b) How many students take neither History nor Maths?

Answer: _____ [1]

(c) How many students took both subjects?

Answer: _____ [1]

(d) How many students took Mathematics only?

Answer: _____ [1]

ROUGH WORK

19. (a) Solve for $x$.

$$\frac{x}{5} = 7$$

Answer: _____ [2]

(b) If $f = 4$, $g = 5$ find the value of

$$g + f - 6$$

Answer: _____ [2]