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0044/1

BJC

FOR EXAMINERS' USE ONLY	
Total Marks	

SCHOOL No.	CANDIDATE No.
INITIAL(S)	SURNAME

**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2010**

**0044 MATHEMATICS
PAPER 1 (50 MARKS)**

Monday **31 May 2010** 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 [].



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

1. (a)
$$\begin{array}{r} 137 \\ + 62 \\ \hline 258 \\ \hline \end{array}$$

Answer: _____ [1]

(b)
$$\begin{array}{r} 937 \\ - 897 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

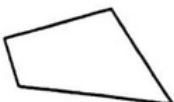
2. (a)
$$\begin{array}{r} 1208 \\ \times 6 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

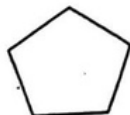
(b)
$$4 \overline{)1796}$$

Answer: _____ [1]

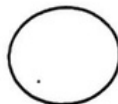
3. Write the letter of the diagram which shows a trapezium.



A



B



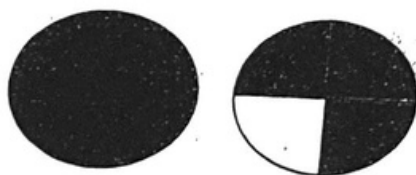
C



D

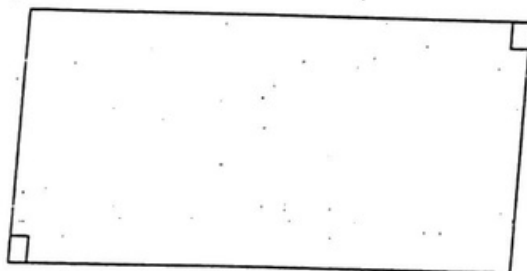
Answer: _____ [1]

4. Write the fraction represented by the shaded regions.



Answer: _____ [2]

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



[2]

6. On a map one inch represents five miles. How many inches would represent 35 miles?

Answer: _____ inches [2]

7. When $c = 3$ and $d = 4$, evaluate $\frac{cd}{2}$

Answer: _____ [2]

8.

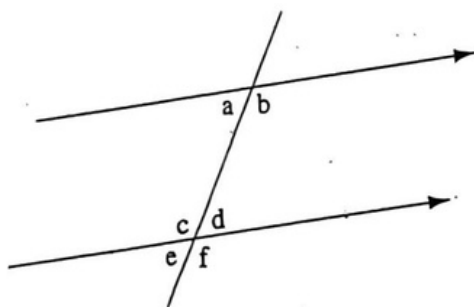


SALE PRICE ... \$45.90

Bill bought a pair of shoes in a sale for \$45.90. He saved \$5.45. What was the regular price of the shoes?

Answer: \$ _____ [2]

9. Study the diagram below then answer the questions which follow.



- (a) Name ONE pair of corresponding angles.

Answer: _____ [1]

- (b) Angle $a = 60^\circ$, what is the size of angle d ?

Answer: _____ [1]

10. Express 38% as a fraction in its lowest terms.

Answer: _____ [2]

11. From the set of numbers {6,7,11,61,51}, write down:

(a) ONE composite number,

Answer: _____ [1]

(b) ONE odd number,

Answer: _____ [1]

(c) ONE factor of 54.

Answer: _____ [1]

12. The sum of two numbers is 12. One of the numbers is 8.78. Find the other number.

Answer: _____ [3]

13. Evaluate:

$$5^2 + 3^3$$

Answer: _____ [3]

14. (a) Simplify by collecting the like terms.

$$16m - 4m + m$$

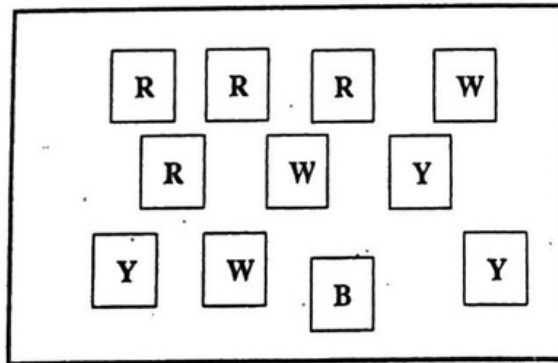
Answer: _____ [1]

- (b) Solve for d .

$$5d - 8 = 32$$

Answer: _____ [3]

15. Tickets marked R, Y, B, W are placed on a tray.



Without looking, what is the probability of selecting:

- (a) a ticket marked W?

Answer: _____ [2]

- (b) a ticket not marked W?

Answer: _____ [2]

16.

[REDACTED]

Sofa ... \$960
Down Payment ... \$96
Balance ... 12 equal monthly payments

- (a) How much is the balance?

Answer: \$ _____ [2]

- (b) How much is each monthly payment?

Answer: \$ _____ [2]

17.



McHumor.com by T. McCracken.

A class has 14 boys and 18 girls.

- (a) Write the ratio of boys to girls in its lowest terms.

Answer: _____ [2]

- (b) Write the number of girls as a percentage of the class.

Answer: _____ [3]

18. (a) Use a pencil, ruler and a pair of compasses to draw a circle of radius 4 cm.

[2]

- (b) Insert the following on the circle above.

(i) centre B,

[1]

(i) diameter ABY,

[1]

(i) radius BC.

[1]