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0044/1

BJC

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Total Marks	

SCHOOL No.	CANDIDATE No.
INITIAL(S)	SURNAME

**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2011**

0044 MATHEMATICS

PAPER 1 (50 MARKS)

Thursday **2 June 2011** 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)
$$\begin{array}{r} 4163 \\ + 875 \\ \hline 21 \\ \hline \end{array}$$

Answer: _____ [1]

(b)
$$\begin{array}{r} 8756 \\ - 5490 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

2. (a)
$$\begin{array}{r} 3159 \\ \times 9 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

(b)
$$3 \overline{)5715}$$

Answer: _____ [1]

3. Round 5 684 to the nearest 10.

Answer: _____ [1]

4. Write the next number in each of the sequences below.

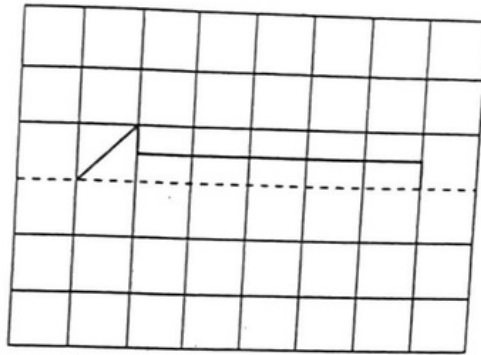
(a) 4, 9, 16, _____

[1]

(b) 39, 36, 33, 30, _____

[1]

5. Complete the shape about the line of symmetry (dotted line).



[2]

6. Use your ruler and compass to bisect the line **AB** below.



[2]

7. Given that

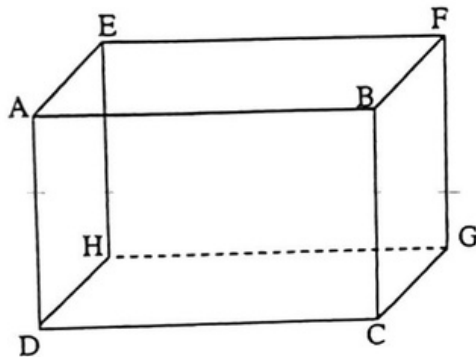
$$90 = 2 \times 3 \times 3 \times 5$$

$$54 = 2 \times 3 \times 3 \times 3$$

Find the Highest common factor (HCF) of the two numbers.

Answer: _____ [2]

8.



AB is parallel to DC.

- (a) Name a line parallel to DH.

Answer: _____ [1]

BC is a vertical line.

- (b) Name one other vertical line.

Answer: _____ [1]

9. Express the fraction $\frac{35}{50}$ as a percent.

Answer: _____ [2]

10. From the numbers in the table below, write:

51	18	23
27	7	5
12	3	9

- (a) the largest prime number.

Answer: _____ [1]

- (b) a cube number.

Answer: _____ [1]

- (c) a multiple of 6.

Answer: _____ [1]

11.



Free



Others - \$30 each

Seaside Airline allows its passengers to travel with 1 bag and a carry on at no extra cost. The second bag and all others are at an additional cost of \$30 each.

- (a) How much would a passenger with 3 bags and a carry on bag have to pay?

Answer: \$ _____ [2]

- (b) The first bag weighs 7.85 kg. Express this in grams.

Answer: _____ gm [1]

12. Sally had 120 candies. She shared 90% among her friends.

- (a) How many candies did she share among her friends?

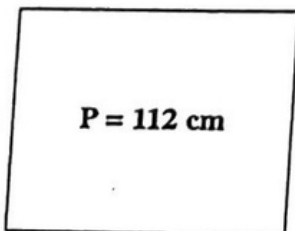
Answer: _____ candies [2]

- (b) If each friend received 6 candies, how many friends did she share with?

Answer: _____ friends [2]

13.

30 cm



NOT TO SCALE

The perimeter of the rectangle above is 112 cm. The length is 30 cm. Calculate the width of the rectangle.

Answer: _____ cm [3]

14.

BOOKS - SPECIAL OFFER

Option 1

\$1.49 each

OR

Option 2

3 for \$4.35

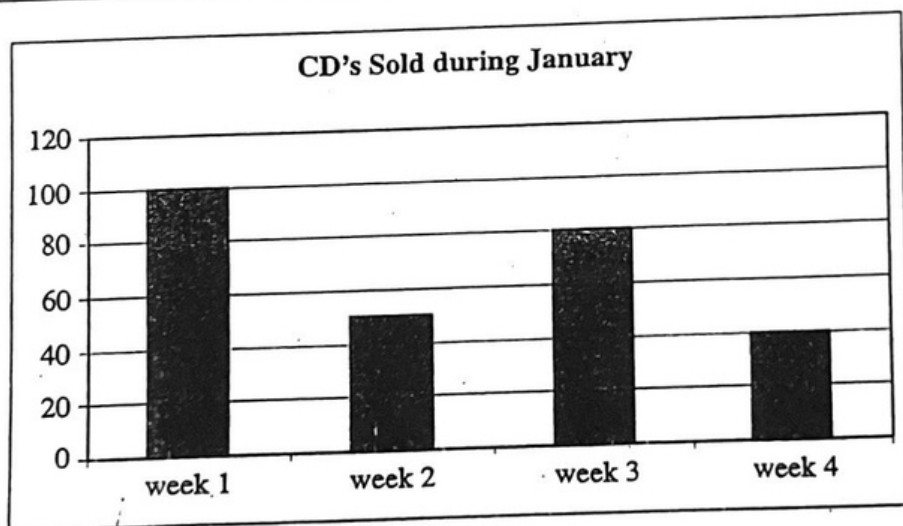
- (a) John bought 3 books at \$1.49 each. How much did he pay altogether?

Answer: \$ _____ [2]

- (b) What is the difference in price between using Option 1 and Option 2?

Answer: \$ _____ [2]

15.



- (a) In which week was the largest number of CD's sold?

Answer: _____ [1]

- (b) In which week was the least number of CD's sold?

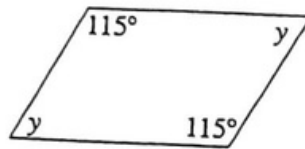
Answer: _____ [1]

- (c) How many more CD's were sold in week 3 than in week 2?

Answer: _____ [2]

16. Calculate the value of the lettered angles.

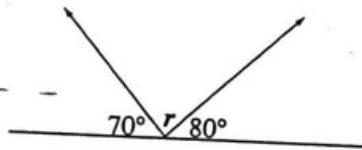
(a)



NOT TO SCALE

Answer: $y =$ _____ $^\circ$ [3]

(b)



NOT TO SCALE

Answer: $r =$ _____ $^\circ$ [2]

17. Simplify the following expression:

(a) $3m + 8m + 6z - 2z$

Answer: _____ [2]

(b) If $f = 3$, $g = 5$, $h = 10$ find the value of

$$2f - g + h$$

Answer: _____ [2]

(c) Solve for d

$$3d + 6 = 18$$

Answer: _____ [3]