0044/1 BJC

FOR EXAMINERS' USE ONLY	
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 [ ].

This question paper consists of **8** printed pages.

ROUGH WORK

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

1. (a)
$$\begin{array}{r} 4163 \\ +\ 875 \\ \hline 21 \\ \hline \\ \hline \end{array}$$

Answer: _____ [1]

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

Answer: _____ [1]

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

Answer: _____ [1]

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

Answer: _____ [1]

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3. Round 5 684 to the nearest 10.

Answer: _____ [1]

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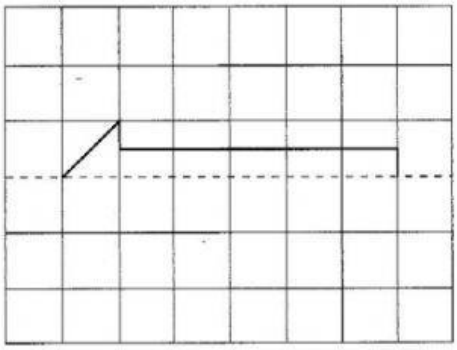
4. Write the next number in each of the sequences below.

(a) 4, 9, 16, _____ [1]

(b) 39, 36, 33, 30, _____ [1]

ROUGH WORK

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

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

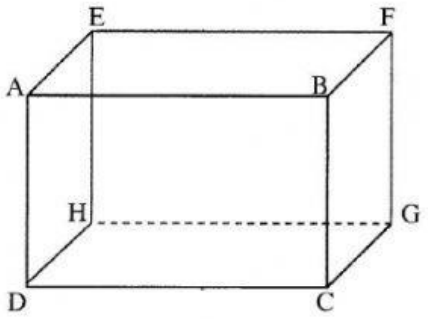
$$54 = 2 \times 3 \times 3 \times 3$$

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

Answer: _____ [2]

ROUGH WORK

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]

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

Answer: _____ [2]

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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]

ROUGH WORK

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]

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

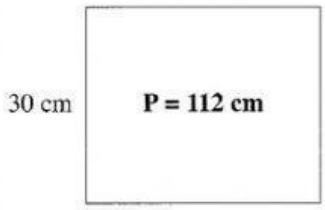
(a) How many candies did she share among her friends?

Answer: _____ candies [2]

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

Answer: _____ friends [2]

13.



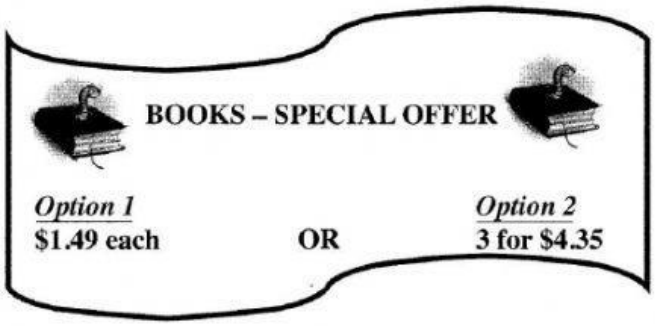
NOT TO SCALE

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

Answer: _____ cm [3]

ROUGH WORK

14.



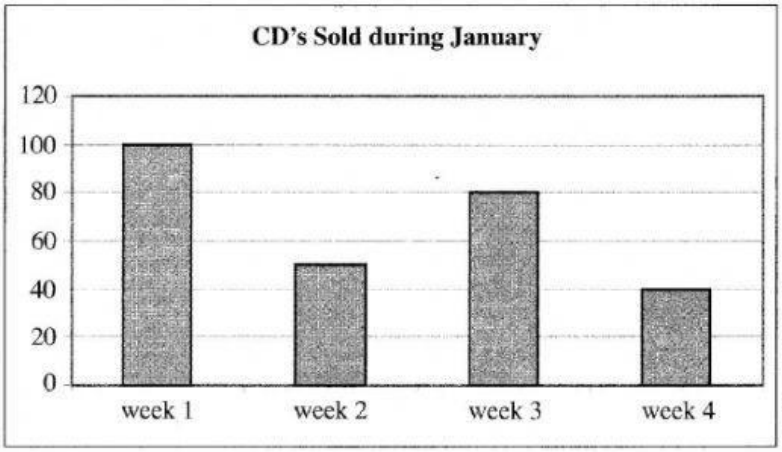
(a) John bought 3 books at $1.49 each. How much did he pay altogether?

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]

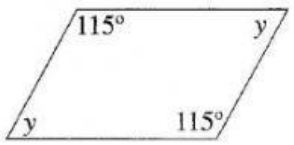
(c) How many more CD's were sold in week 3 than in week 2?

Answer: _____ [2]

ROUGH WORK

16. Calculate the value of the lettered angles.

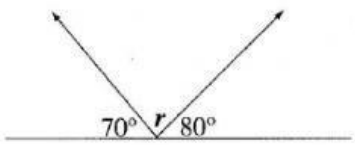
(a)



NOT TO SCALE

Answer: y = _____ ° [3]

(b)



NOT TO SCALE

Answer: r = _____ ° [2]

ROUGH WORK

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]