

| 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.

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

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

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]

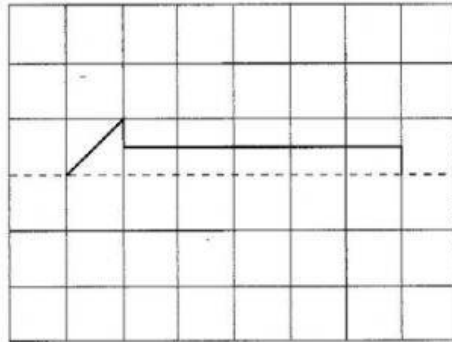
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4. Write the next number in each of the sequences below.

(a) 4, 9, 16, \_\_\_\_\_ [1]

(b) 39, 36, 33, 30, \_\_\_\_\_ [1]

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

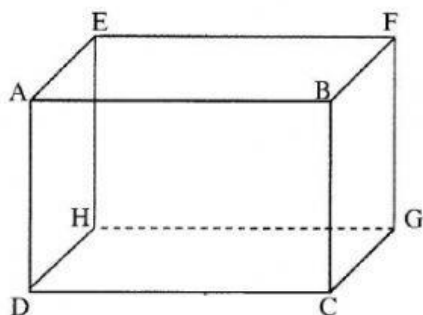
$$90 = 2 \times 3 \times 3 \times 5$$

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

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?

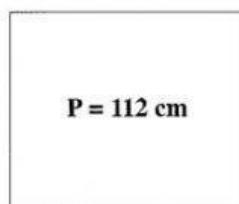
Answer: \_\_\_\_\_ candies [2]

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

Answer: \_\_\_\_\_ friends [2]

13.

30 cm

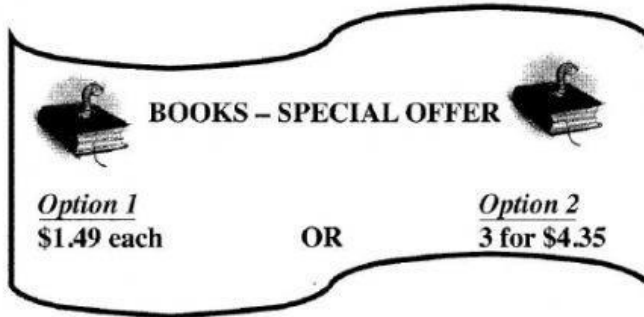


NOT TO SCALE

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

Answer: \_\_\_\_\_ cm [3]

14.



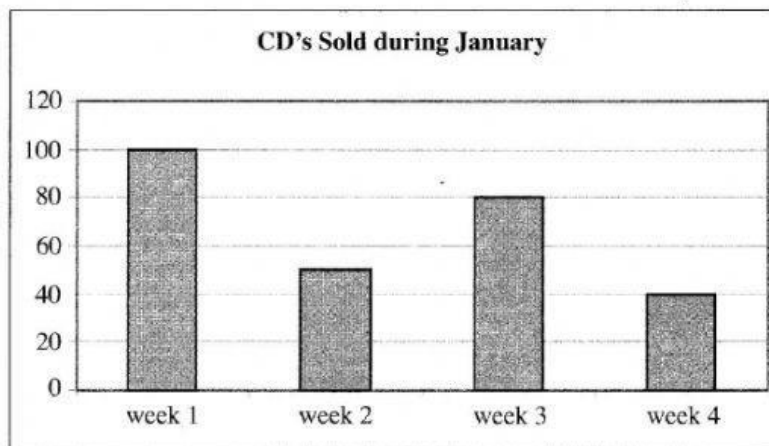
- (a) John bought 3 books at \$1.49 each. How much did he pay altogether?

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]

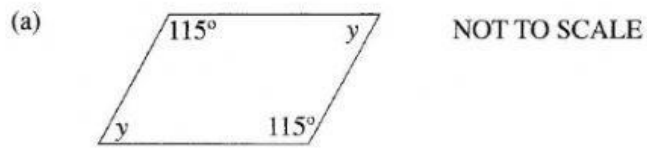
- (b) In which week was the least number of CD's sold?

Answer: \_\_\_\_\_ [1]

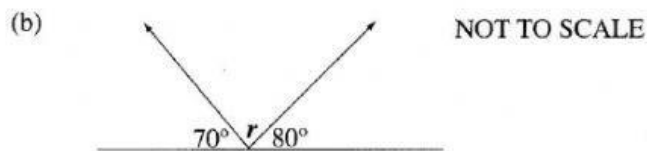
- (c) How many more CD's were sold in week 3 than in week 2?

Answer: \_\_\_\_\_ [2]

16. Calculate the value of the lettered angles.



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



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]