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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2015

0044 MATHEMATICS

PAPER 2 (100 Marks)

Monday **1 June 2015** 9:00 A.M.–11:00 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, 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 13 printed pages.

555506 ©MOE 2015

[Turn over

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

1. (a)
$$\begin{array}{r} 2.12 \\ +6.23 \\ 5.1 \\ \hline \end{array}$$

Answer: _____ [1]

(b)
$$\begin{array}{r} 6.04 \\ \times 5 \\ \hline \end{array}$$

Answer: _____ [1]

-
2. Mr. Brown earns \$630 and Mr. Green earns \$720. Express Mr. Brown's earnings as a ratio to Mr. Green's earnings in simplest form.

Answer: _____ [2]

-
3. Round 723.173 correct to

- (a) 2 decimal places,

Answer: _____ [1]

- (b) the nearest tenth,

Answer: _____ [1]

- (c) 2 significant figures,

Answer: _____ [1]

- (d) nearest whole number.

Answer: _____ [1]

4. Henry earned \$24,366 last year. Calculate his monthly salary.

Answer: \$ _____ [3]

5. Simplify by collecting like terms.

$$2a + b - 3a + 4a + b$$

Answer: _____ [2]

6. The scale of a drawing is 1 cm to 15.2 m.

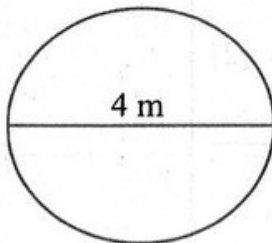
- (a) What is the actual distance of a road drawn 9 cm long?

Answer: _____ [2]

- (b) Express your answer in kilometres.

Answer: _____ [2]

7.



NOT DRAWN TO SCALE

Joe has a circular pool. The pool has a diameter of 4 metres. Joe swam once around the pool. How many metres did he swim? (Use $\pi = 3.14$).

Answer: _____ m [3]

8. A machine can print 25 labels on an envelope every minute. Calculate the number of labels that can be printed in 2 hours.

Answer: _____ [4]

9.



Mrs. Bailey bought a house for \$95,000. She later sold it for \$114,000.

- (a) Calculate her profit

Answer: \$ _____ [2]

- (b) Calculate the profit as a percentage of the price she paid for it.

Answer: _____ % [2]

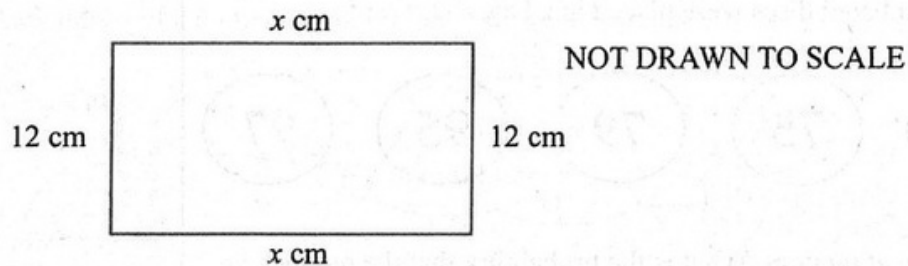
10. (a) Express 784 as a product of its prime factors.

Answer: _____ [2]

- (b) Hence, find $\sqrt{784}$.

Answer: _____ [2]

11.



The perimeter of the above rectangle is 54 cm.

- (a) Calculate the length of the side marked x .

Answer: _____ cm [3]

- (b) Use your answer from part (a) to calculate the area of the rectangle.

Answer: _____ cm² [2]

12. Evaluate, then express your answer in simplest form

$$\frac{2}{3} \times 4\frac{1}{4} - 1\frac{1}{6}$$

Answer: _____ [5]

13. The following numbered discs were placed in a bag.



One disc is chosen at random. What is the probability that the number

- (a) is 59?

Answer: _____ [1]

- (b) starts with 9?

Answer: _____ [1]

- (c) is between 30 and 55?

Answer: _____ [1]

- (d) is a multiple of 5?

Answer: _____ [1]

- (e) has the digit 7?

Answer: _____ [1]

- (f) is less than 100?

Answer: _____ [1]

14. Jack thinks of a number y , multiplies it by 3 then subtracts 5.



y multiplied by 3
then subtract 5

- (a) Write an expression to represent this.

Answer: _____ [1]

Susan thinks of the same number y and adds 15 to it.



y then
add 15

- (b) Write an expression to show this information.

Answer: _____ [1]

Both Jack and Susan end up with the same number.

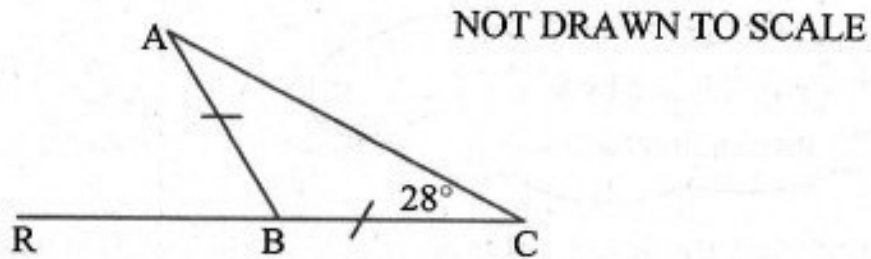
- (c) Write an equation to show this.

Answer: _____ [1]

- (d) Solve your equation to find the value of y .

Answer: _____ [3]

15. Use the diagram below to answer the questions which follow.



- (a) What type of triangle is ABC ?

Answer: _____ [1]

- (b) State the size of $\hat{CAB}$.

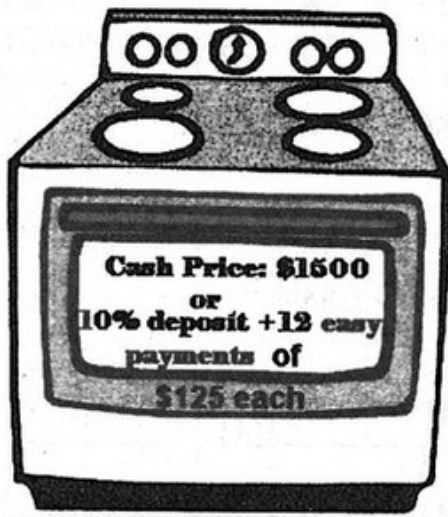
Answer: _____ [1]

- (c) Calculate the size of $\hat{ABC}$.

Answer: _____ [3]

- (d) Calculate the size of $\hat{ABR}$.

Answer: _____ [2]



M & G Appliance Centre sells a stove at a cash price of \$1,500. It can also be bought on hire purchase. The hire purchase plan requires a deposit of 10% of the cash price and 12 equal monthly payments of \$125 each. Mrs. Smith decided to use the Hire Purchase plan.

Calculate

- (a) the total amount of the monthly payments,

Answer: \$ _____ [2]

- (b) the amount of her deposit,

Answer: \$ _____ [2]

- (c) the total cost of the stove using the Hire Purchase plan,

Answer: \$ _____ [2]

- (d) the amount of money to be saved by paying cash.

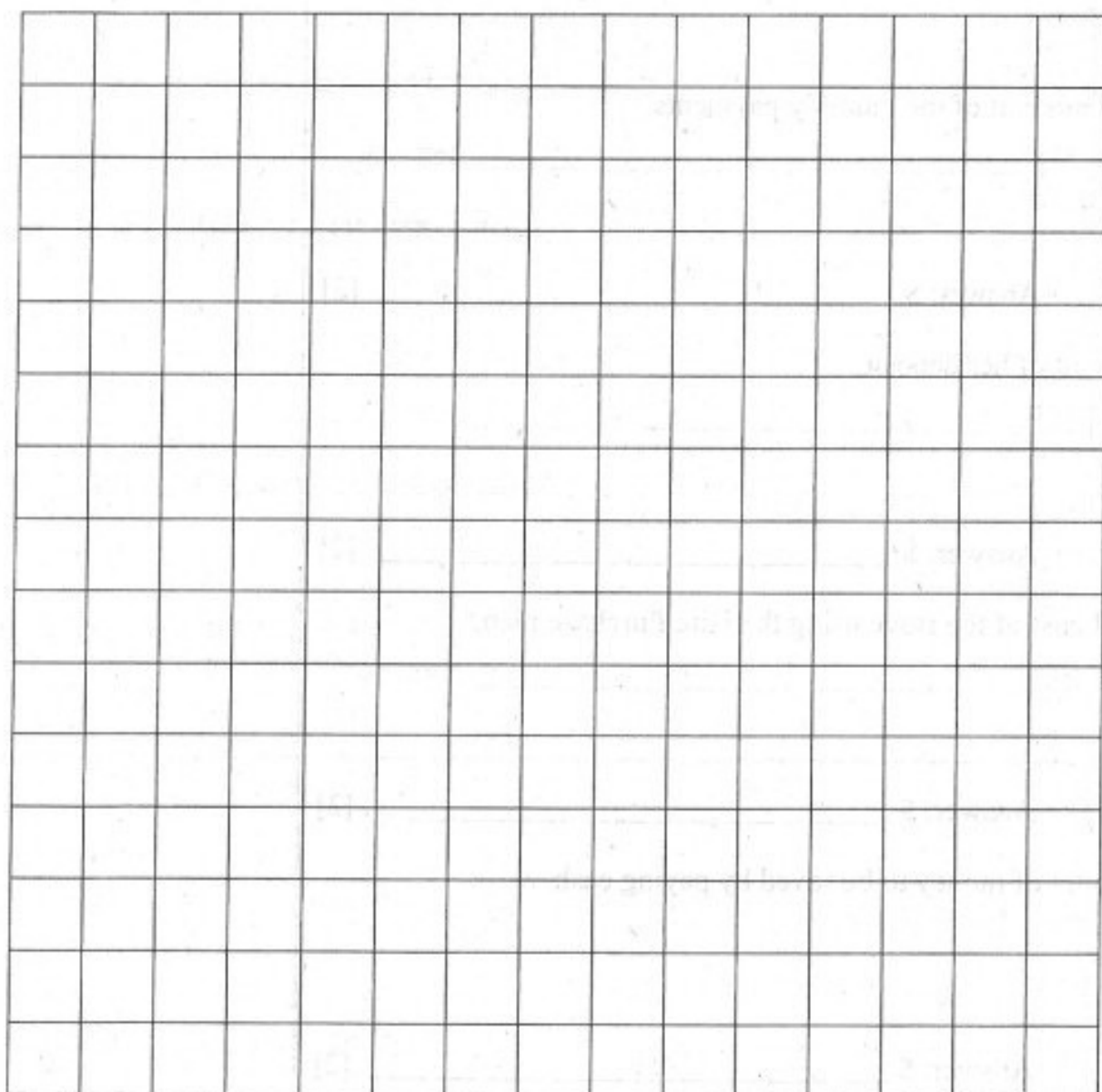
Answer: \$ _____ [2]

17. (a) Draw and label the x and y axes from -6 to 9 . [2]
- (b) Plot and label the following points $A(8, 7)$ and $B(-6, -2)$ [2]
- (c) Join A to B . [1]
- (d) Write the coordinates of the point where the line cuts the x axis.

Answer: _____ [1]

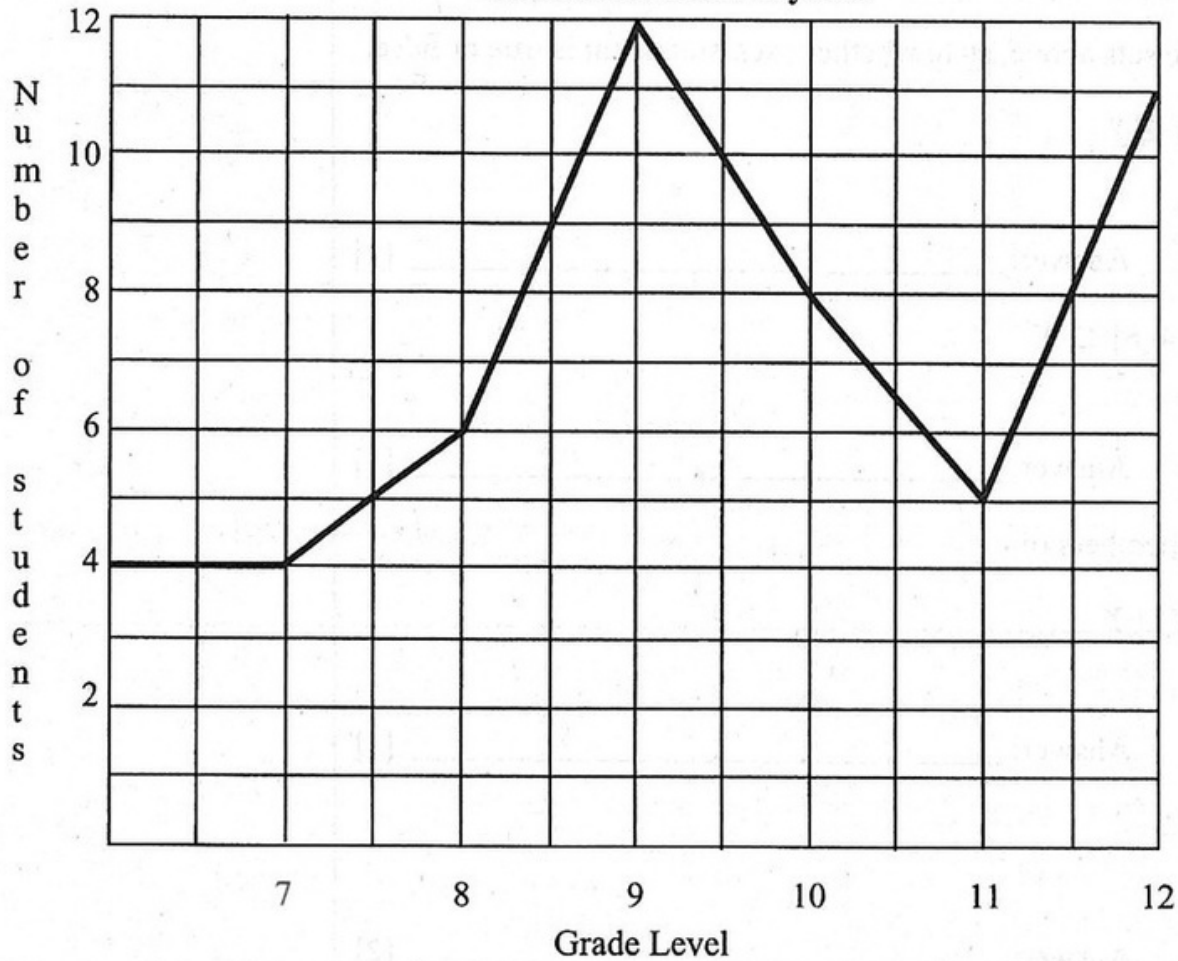
- (e) Write the coordinates of the point where the line cuts the y axis.

Answer: _____ [1]



18. The line graph below shows the number of students from grades 7 through 12 who tried out for the soccer team at school.

The Soccer Team Tryouts



- (a) Which grade level had the largest number of students trying out?

Answer: _____ [1]

- (b) How many students from grade 11 tried out?

Answer: _____ [1]

- (c) How many more students from grade 12 tried out than from grade 8?

Answer: _____ [2]

- (d) How many students tried out altogether?

Answer: _____ [2]

19. $\varepsilon = \{2, 4, 6, 8, 10, 12, 14\}$
 $X = \{2, 4, 8, 10\}$
 $Y = \{6, 8, 14\}$

(a) Using the sets above, state whether each statement is true or false.

(i) $8 \notin Y$

Answer: _____ [1]

(ii) $\{4, 6\} \subseteq X$

Answer: _____ [1]

(b) List the members of

(i) $X \cup Y$

Answer: _____ [1]

(ii) Y'

Answer: _____ [2]

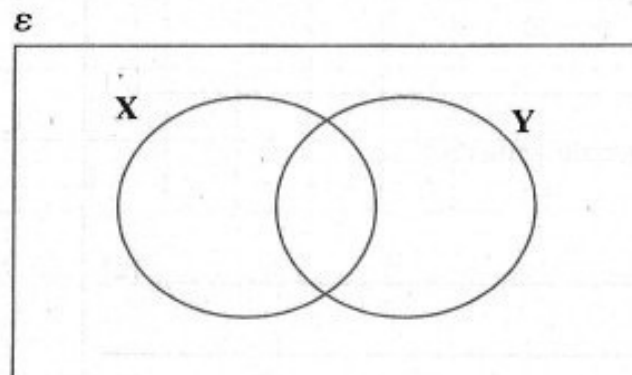
(iii) $n(x)'$

Answer: _____ [2]

(iv) $X \cap Y$

Answer: _____ [1]

(c) Complete the Venn diagram, writing each member of X and Y in the correct region.



Answer: _____ [4]

20. (a) Using a ruler and a pair of compasses, with AB as the base of your triangle, construct $\triangle ABC$ with $AC = 7\text{ cm}$ and $BC = 6\text{ cm}$.

[4]

A _____ B

- (b) Bisect the side AB .

[2]

