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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2010

0044 MATHEMATICS

PAPER 2 (100 MARKS)

Tuesday **1 June 2010** 9.00–11.00 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 the 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 15 printed pages.

Answer ALL questions. Show ALL necessary working.

1. $9\,000 + 300 + 10 + 2 =$

Answer: _____ [1]

2. Circle ALL the numbers from the list below that would make this statement true.

$$b \geq 4$$

-4	8	10
----	---	----

[2]

3. Collect the like terms and simplify:

$$g + g - d - d + g$$

Answer: _____ [2]

4. Write the number whose prime factors are $2^3 \times 7$.

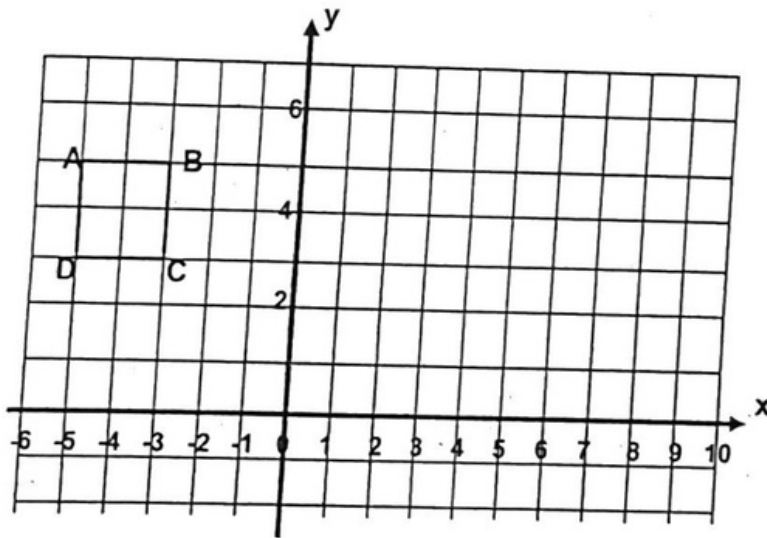
Answer: _____ [2]

5. Calculate the value of:

$$5 \times 4 + 6 \div 2$$

Answer: _____ [3]

6.



- (a) Move ABCD 6 units to the right. Label the new figure $A_1B_1C_1D_1$. [2]
 (b) Write down the coordinates of D_1 .

Answer: (_____, _____) _____ [1]

7.



11 minutes walking distance.

It takes Andrea 11 minutes to walk from her house to the Bus Stop. She arrives at the stop 8 minutes too early for the 11:15 a.m. bus. At what time did she leave home?

Answer: _____ a.m. [3]

8.



Mr. Black bought a television set for \$450.00. He later sold the television set at a loss of 30%.

- (a) Calculate the amount of the loss.

Answer: \$ _____ [2]

- (b) At what price did Mr. Black sell the television set?

Answer: \$ _____ [2]

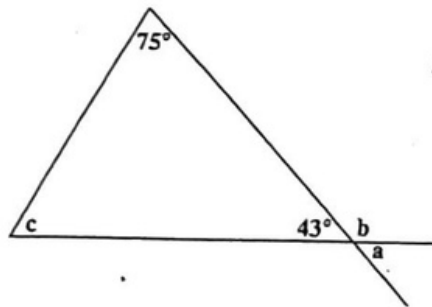
9. Using the symbol , to represent 4 books, complete the pictograph below.

The pictograph shows the number of books read by Grade 5P.

Pupil's Name	Number of Books Read	Picture
Gabriel	12	
Joshua	4	
Dianne		
Larry	6	
KEY:  = 4 books		

[4]

10.



NOT TO SCALE

- (a) What is the size of angle a?

Answer: _____° [1]

- (b) Calculate the size of:

- (i) angle b,

Answer: _____° [2]

- (ii) angle c.

Answer: _____° [2]

11. The weekly tips for 6 packing boys are as follows:

Andrew	James	Peter	Alfred	Tony	John
\$113	\$120	\$114	\$119	\$114	\$110

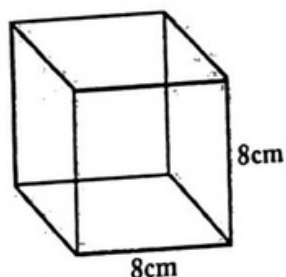
- (a) What is the median tip?

Answer: \$_____ [2]

- (b) Calculate the mean tip.

Answer: \$_____ [2]

12.



- (a) How many faces does the above cube have?

Answer: _____ [1]

- (b) (i) Calculate the area of one face of the cube.

Answer: _____ cm^2 [2]

- (ii) What is the total area of all of the faces?

Answer: _____ cm^2 [2]

13.



apexdsi.com

Paula deposited \$1 200 in a savings account for one year at 6% simple interest per annum.

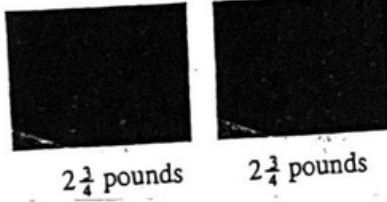
- (a) Calculate the interest after one year.

Answer: \$ _____ [3]

- (b) Calculate the amount in her account after one year.

Answer: \$ _____ [2]

14.

 $2\frac{3}{4}$ pounds $2\frac{3}{4}$ pounds

Steven bought 2 packages of hamburger meat. Each package weighed $2\frac{3}{4}$ pounds.

- (a) Calculate the total weight of the meat.

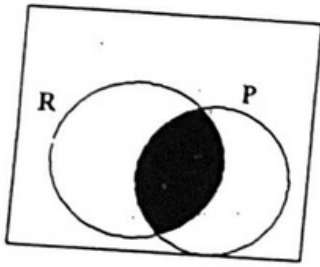
Answer: _____ pounds [3]

He then divided the meat into $\frac{1}{4}$ pound hamburger patties.

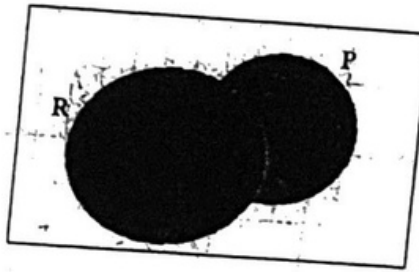
- (b) How many patties was he able to make?

Answer: _____ [3]

15. (a) Which diagram represents $R \cap P$?



A



B

Answer: _____ [1]

- (b) $\xi = \{1, 7, 11, 15\}$. List the members of the following sets:

(i) {multiples of 3}

Answer: { _____ } _____ [1]

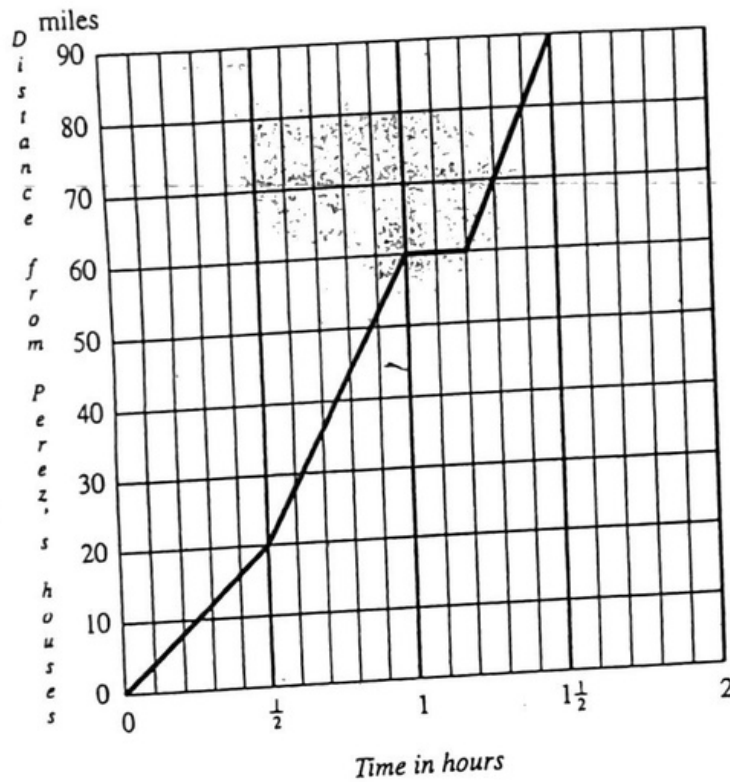
(ii) {factors of 21}

Answer: { _____ } _____ [2]

(iii) {prime numbers}.

Answer: { _____ } _____ [2]

16.



The graph shows Perez's journey from his house to his grandmother's house.

- (a) How long did Perez take to travel the first 20 miles?

Answer: _____ hr [1]

- (b) How long did Perez stop for after travelling for one hour?

Answer: _____ [1]

- (c) How far from his home was Perez after one hour?

Answer: _____ miles [1]

- (d) How far is it from Perez's house to his grandmother's house?

Answer: _____ miles [1]

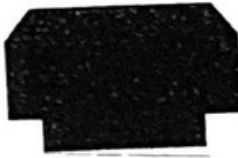
- (e) How long did it take for Perez to reach his grandmother's house?

Answer: _____ hrs [1]

- (f) Calculate the average speed for Perez's entire journey.

Answer: _____ mph [3]

17.



Printer = \$ x

5 times as much as the printer

A computer costs five times as much as a printer.

- (a) Write an expression to show the cost of the computer.

Answer: _____ [1]

The cost of the computer and printer together is \$1 320.

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

Answer: _____ [2]

- (c) Solve the equation for x.

Answer: _____ [2]

- (d) Write down the cost of:

- (i) the printer,

Answer: _____ [1]

- (ii) the computer.

Answer: _____ [2]

18.



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Shelia is paid \$10 an hour for a 40 hour week.

- (a) Calculate her wages for a 40 hour week.

Answer: \$ _____ [2]

Overtime is paid at double time.

- (b) Calculate the amount paid for one hour of overtime.

Answer: \$ _____ [1]

During a week, Shelia worked 48.5 hours.

- (c) (i) How many hours did she work overtime?

Answer: _____ hrs [2]

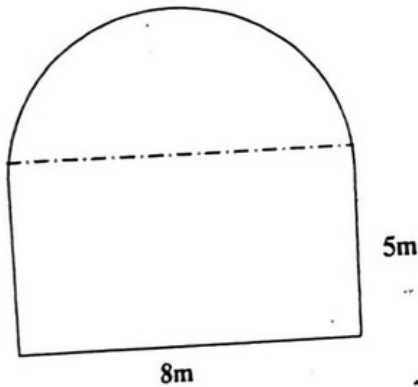
- (ii) What was her total overtime pay?

Answer: \$ _____ [2]

- (d) Calculate her **total** earnings for that week.

Answer: \$ _____ [2]

19.



NOT TO SCALE

The diagram represents a window.

- (a) Write down the diameter of the semi-circle.

Answer: _____ m [1]

- (b) Calculate the length of the curved portion. ($\pi = 3.14$)

Answer: _____ m [3]

A metal strip is placed around the semi-circular part and the 3 straight edges.

- (c) (i) What is the total length of the metal strip needed?

Answer: _____ m [2]

- (ii) Round your answer in (i) to the nearest whole number.

Answer: _____ [1]

Metal strip costs \$12 per metre.

- (d) Calculate the total cost of the metal strip.

Answer: \$ _____ [2]

20. (a) On the given line AC, construct an angle of 90° at A.

[3]

- (b) Draw the perpendicular line $AB = 8\text{cm}$

[1]

- (c) Join B to C to form triangle ABC.

[2]

- (d) Measure and write down the length of AC.

Answer: _____ cm [1]

- (e) Calculate the area of triangle ABC.

Answer: _____ cm^2 [3]

