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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2021

0044 MATHEMATICS

PAPER 2 (100 Marks)

Wednesday **23 JUNE 2021** 9:00 A.M.–11:00 A.M.

INSTRUCTIONS TO CANDIDATES:

Do not open this booklet until you are told to do so.

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 in 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 for 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 and **1** blank page.

1. Write 0.007 as a fraction

Answer: _____ [1]

2. Find the value of $4 + 5 \times 2 - 8$

Answer: _____ [2]

3. (a) Convert 4,560 grams into kilograms.

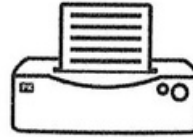
Answer: _____ kg [2]

- (b) 1 kilogram = 2.2 pounds, express your answer from part (a) in pounds.

Answer: _____ lbs [2]



4. Last year, Mary paid \$60 for a printer.
This year the same type printer costs \$75.



- (a) Calculate the increase in the price of the printer.

Answer: \$ _____ [1]

- (b) Express this increase as a percentage of the original price of the printer.

Answer: _____ % [2]

5. A box contains a dozen cookies: 5 chocolate chip, 2 oatmeal, 1 red-velvet and the remainder are sugar cookies.

- (a) How many sugar cookies are in the box?

Answer: _____ cookies [2]

One cookie is chosen at random,

- (b) Calculate the probability that it is a:

- (i) Chocolate

Answer: _____ [1]

- (ii) Peanut butter

Answer: _____ [1]

6.



Mr. Jones earns \$10.50 per hour for a basic 40 hour week.

- (a) Calculate his basic pay when he works 40 hours.

Answer: _____ [2]

If he works on Saturday, he is paid at a rate of time and a half.

- (b) How much is he paid for 1 hour of overtime?

Answer: _____ [2]

- (c) He worked 6 hours overtime on Saturday.

How much was his overtime pay?

Answer: _____ [2]

- (d) Calculate his total pay when he worked his basic hours plus 6 hours on Saturday.

Answer: _____ [2]



7. Jill thinks of a number n . She multiplies it by 7 then adds 2. Her result is 37.

(a) Write the equation to represent the statement above.



Answer: _____ [1]

(b) Solve the equation to determine the value of n .

Answer: _____ [2]

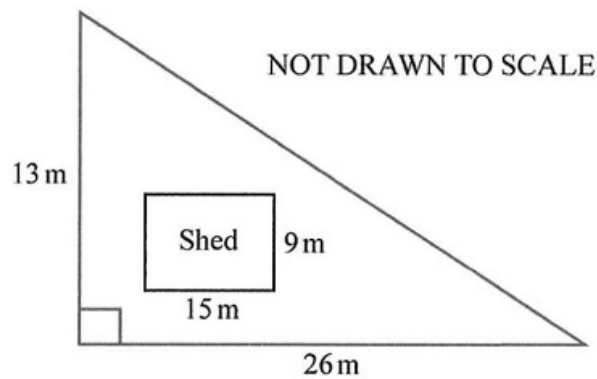
8. A scuba diver is diving at a depth of -4 feet. He dives down another 8 feet then rises 5 feet.



At what new level is he diving?

Answer: _____ metres [2]

9. The diagram below shows the dimension of a triangular piece of property and a rectangular shed.



- (a) Calculate the area of
- (i) the property.

Answer: _____ m^2 [2]

- (ii) the shed.

Answer: _____ m^2 [2]

- (iii) the property around the shed.

Answer: _____ m^2 [2]

- (b) Grass is sold for \$2.25 per square metre.

Calculate the cost to cover the property around the shed with grass.

Answer: _____ [2]



10. Mrs. Dames shared \$20,000 between her two sons Bob and Sam in the ratio 2 : 3 respectively.

(a) Calculate the amount that Bob received.

Answer: _____ [2]

- (b) Bob invested his share for 2 years at 4% per annum simple interest.

Calculate,

(i) the interest earned?

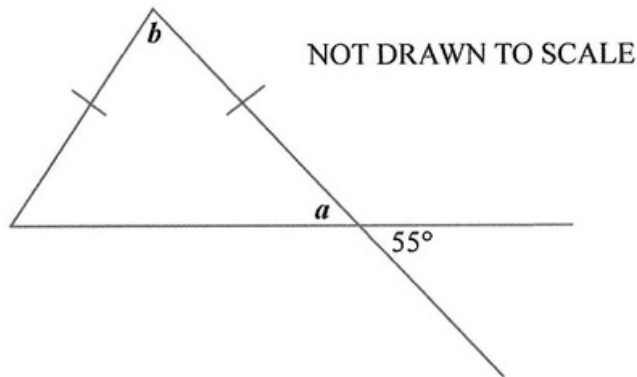
Answer: _____ [3]

(ii) the amount of money he had at the end of the 2 years?

Answer: _____ [2]

11. Calculate the size of.

(a)

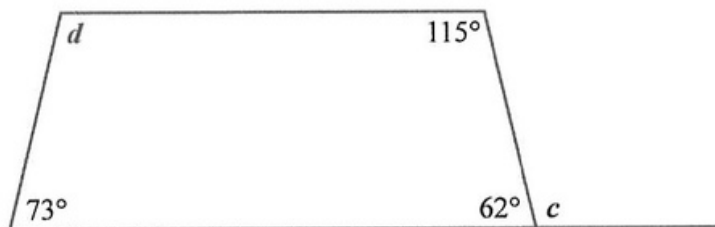


(i) Angle a _____ $^\circ$ [1]

(ii) Angle b _____ $^\circ$ [3]

(b)

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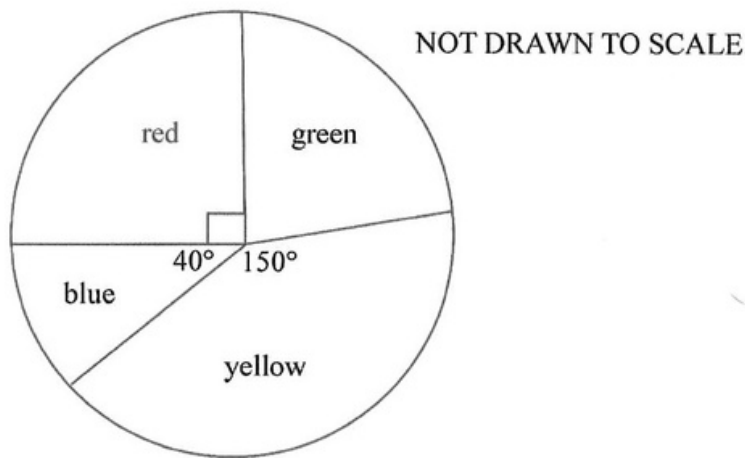


(iii) Angle c _____ $^\circ$ [2]

(iv) Angle d _____ $^\circ$ [2]



12. There are only red, green, yellow, and blue crayons in a box.
The pie chart gives information about the numbers of crayons of each colour.



- (a) Calculate the fraction of red crayons in the box.

Answer: _____ [1]

Find:

- (b) (i) the angle used for green

Answer: _____ [2]

- (ii) the ratio of blue to green in simplest form.

Answer: _____ [2]

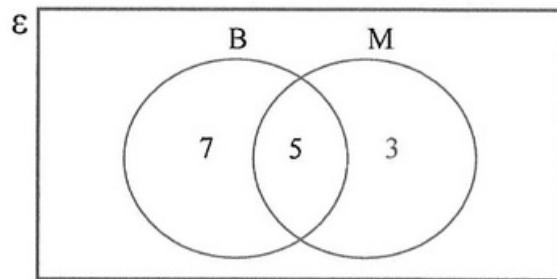
There are 72 crayons in the box.

- (c) Calculate the number of yellow crayons in the box.

Answer: _____ [2]

13. The Venn diagram below shows the number of students in a class who are on a basketball team and/or are in the Math Club.

Study the diagram and answer the questions that follow.



- (a) 4 students were on neither team, place the 4 in the correct region of the Venn diagram [1]
- (b) Calculate the total number of students on the basketball team?

Answer: _____ [1]

- (c) State the number of students that are in the Math Club ONLY.

Answer: _____ [1]

- (d) Write down the number of students that are in the Math Club and are on the basketball team?

Answer: _____ [1]

- (e) Calculate the number of students in the class?

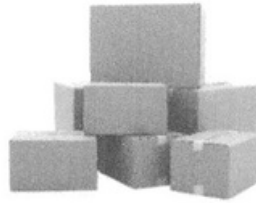
Answer: _____ [2]



14. The weight of 6 boxes is recorded below.

75 g, 85 g, 92 g, 56 g, 75 g, 83 g, 87 g.

- (a) Determine the modal weight of the boxes.



Answer: _____ [1]

- (b) Calculate,

- (i) the range

Answer: _____ [1]

- (ii) the median weight of the boxes

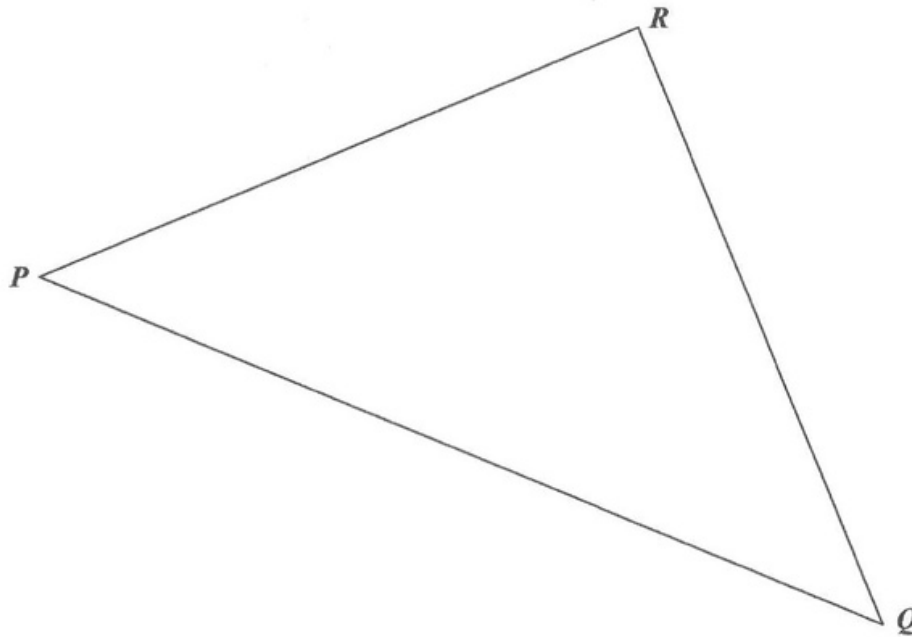
Answer: _____ [2]

- (iii) the average weight of the boxes.

Answer: _____ [3]



15. Triangle PQR is shown below:



- (a) Using compass, ruler and a pencil only bisect angle P [2]
(b) Let the bisector of $\angle P$ meet QR at X [1]
(c) Measure and write down the length of XQ .

Answer: _____ cm [1]

16. 515.779

Write the above number correct to:

- (i) 2 significant figures

Answer: _____ [1]

- (ii) 2 decimal places

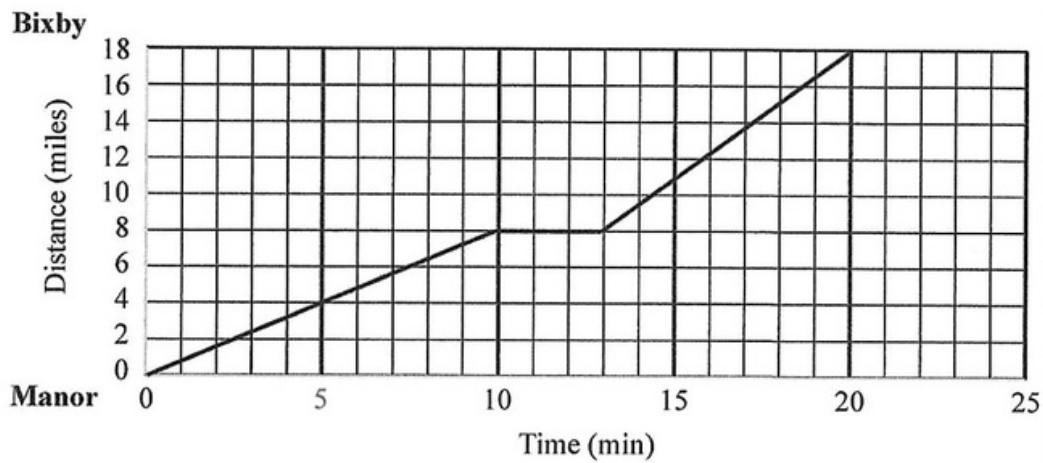
Answer: _____ [1]

- (iii) nearest whole number

Answer: _____ [1]



17. The Graph below show Ted's journey from Manor to Bixby. Study the graph and answer the questions that follow.



- (a) How far is Manor from Bixby?

Answer: _____ [1]

- (b) How long did the car stop?

Answer: _____ [1]

- (c) How long did the journey last?

Answer: _____ [1]

- (d) Calculate the average speed of the entire journey (including stops).

Answer: _____ [3]



18. Fast Cars Auto is selling used cars for \$7,000 cash or 25% down and 24 monthly payments of \$275 each.

Mr. Rolle decided to use their payment plan:

Calculate,



- (a) the amount of the down payment

Answer: _____ [2]

- (b) the total monthly payment

Answer: _____ [2]

- (c) the cost of the car on the payment plan

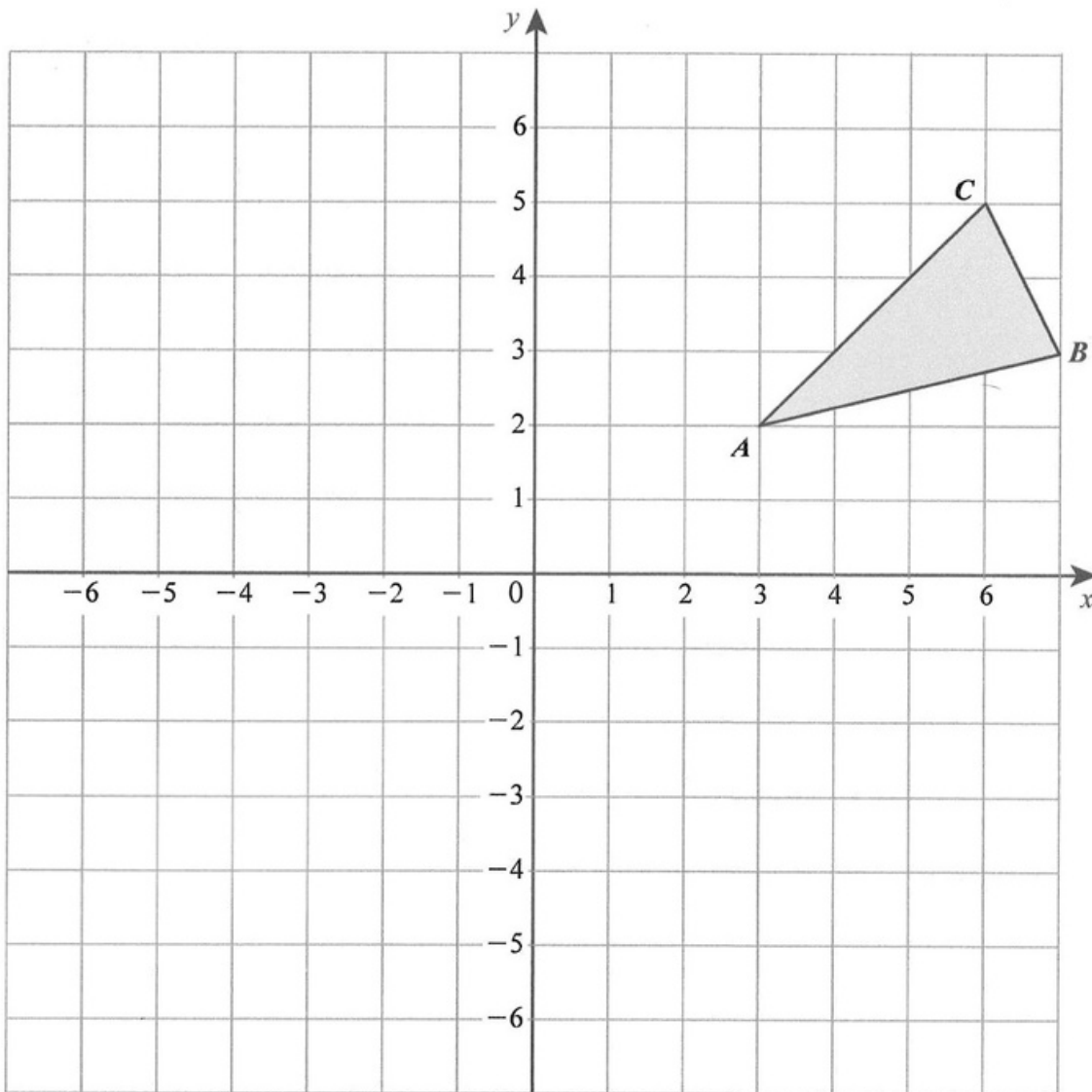
Answer: _____ [2]

- (d) the savings if he had paid cash.

Answer: _____ [2]



19.



On the graph above:

- (a) Draw the line $x = 1$. [1]
- (b) Reflect triangle ABC in the line $x = 1$. [2]
- (c) Label image $A_1B_1C_1$. [1]
- (d) Move each point in $\triangle ABC$ 2 places to the left and 6 places down. [3]
- (e) Label image $A_2B_2C_2$. [1]



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