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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2020

0044 MATHEMATICS

PAPER 2 (100 Marks)

Tuesday **2 JUNE 2020** 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.

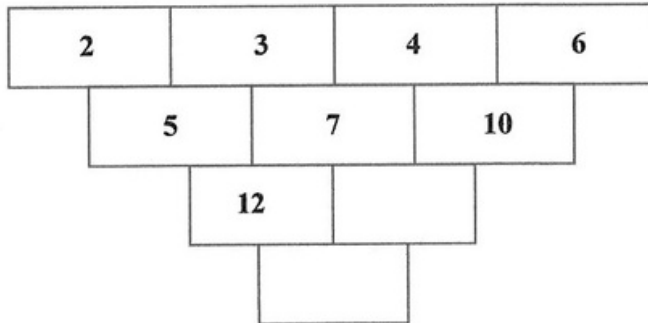
ALL diagrams are not drawn to scale unless otherwise indicated.

The mark for each question, or part question, is shown in brackets [].



This question paper consists of 16 printed pages.

1. Below is an addition wall. Fill in the values in the two bricks that are blank.



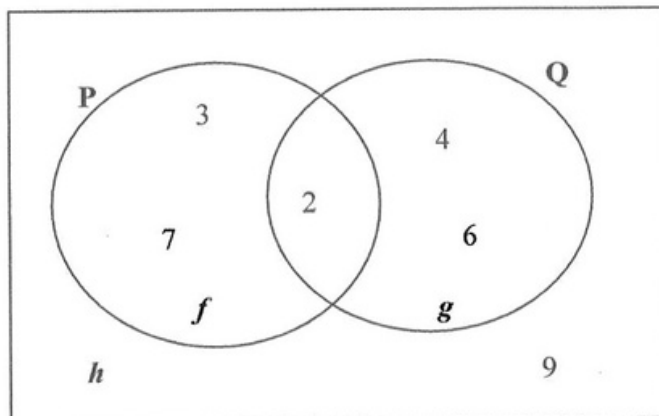
Answer: _____, _____ [2]

2. Write the next two numbers in the sequence.

-12, -9, -6, -3, _____, _____, ...

[2]

3. $\epsilon = \{\text{natural numbers less than 10}\}$
 $P = \{\text{prime numbers less than 10}\}$



- (a) List the numbers represented by the following letters.

Answer: f is _____ [1]

g is _____ [1]

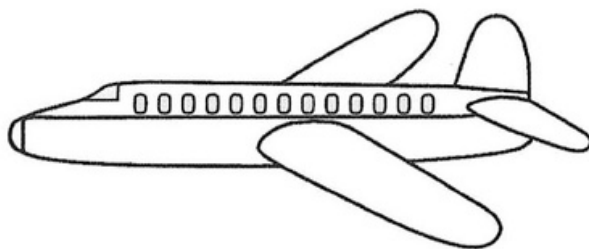
h is _____ [1]

- (b) Describe set Q

Answer: _____

_____ [1]





4. A plane left Nassau at 8:45 am. It arrived in Abaco 35 minutes later.

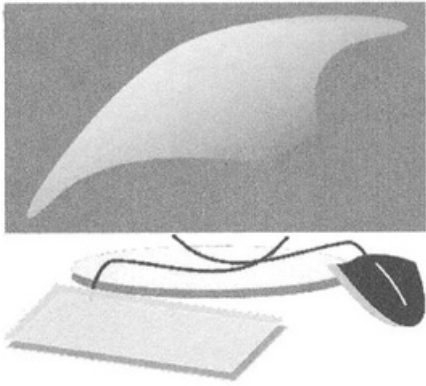
(a) At what time did the plane arrive in Abaco?

Answer: _____ [2]

Mr. Jones arrived at Nassau airport at 7:30 am.

(b) How many **minutes** did he have to wait before the plane left for Abaco?

Answer: _____ [2]



5. Mr. Jones makes a \$250 profit when he sells a computer for \$2250.

(a) What is the cost price of the computer?

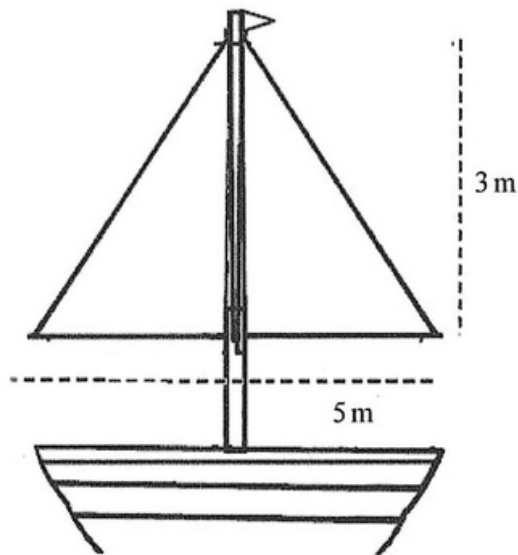
Answer: _____ [1]

(b) Calculate the profit Mr. Jones made as a percentage of the cost price.

Answer: _____ [3]



6.



NOT DRAWN TO SCALE

A boat has a triangular sail with base of 5 m and height of 3 m.

- (a) Calculate the area of the sail.

Answer: _____ [2]

Material for the sail cost \$8.50 per square metre.

- (b) Calculate the cost of the material used to make the sail.

Answer: _____ [2]

[Turn over

7. (a) Angela, Susan and Peter share 1800 acres of land in the ratio 3 : 2 : 4.
How many acres of land will Peter receive?

Answer: _____ [3]

- (b) 6 books cost \$9.24. Calculate the cost of one book.

Answer: _____ [2]

- (c) 4 men take 14 days to build a shed.

- (i) How long will it take 7 men to build the same shed?

Answer: _____ [3]

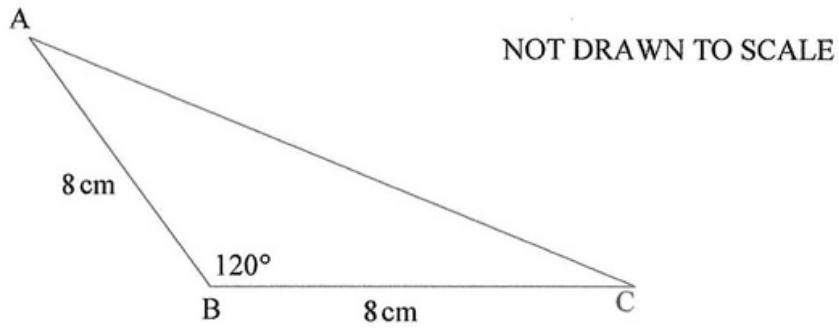
- (ii) How many men are needed to finish the shed in 2 days?

Answer: _____ [2]



8. (a) Make an accurate drawing of the sketch below.

[4]



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

Answer: _____ [1]

- (c) What type of triangle is ABC?

Answer: _____ [1]

9. The height of 6 persons were recorded as follows

1.25 m, 1.7 m, 1.55 m, 1.25 m, 1.45 m, 1.2 m

- (a) Determine the modal height.

Answer: _____ [1]

- (b) What is the median height?

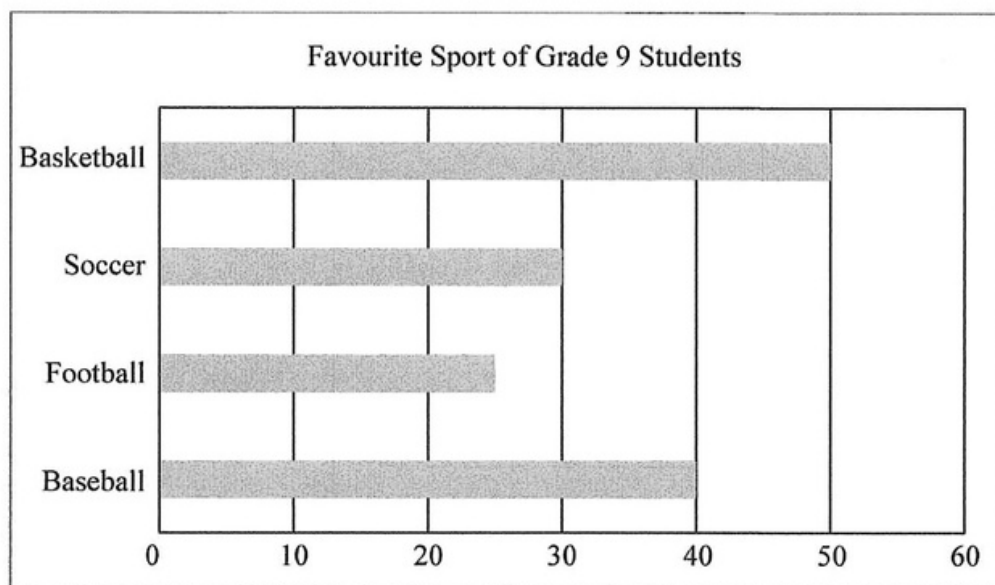
Answer: _____ [3]

- (c) Calculate the average (mean) height of the persons.

Answer: _____ [3]



10. The graph below shows the results of the favourite sport of a group of grade 9 students.



- (a) Which sport is the second most popular?

Answer: _____ [1]

- (b) How many students were surveyed altogether?

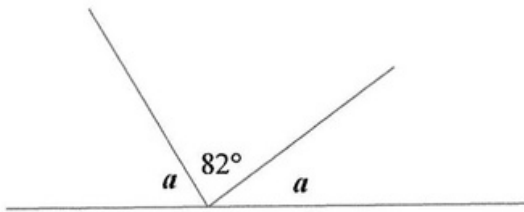
Answer: _____ [2]

- (c) What is the difference between the numbers of students who like basketball and football?

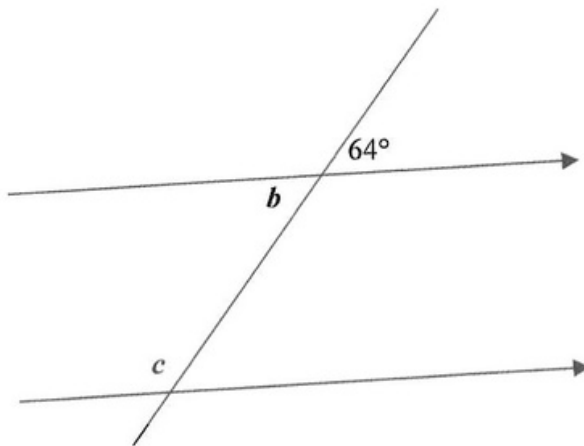
Answer: _____ [2]

11. Calculate the size of the angles marked by letters

NOT DRAWN TO SCALE



Answer: _____ [3]



Answer: (b) _____ [1]

(c) _____ [2]



12. (a) Arrange the following in descending order.

$$\frac{4}{8}, \frac{5}{6}, \frac{7}{12}, \frac{2}{3}$$

Answer: _____ [3]

- (b) Find the sum $\frac{3}{4}$ and $\frac{5}{7}$. Express your answer as a mixed fraction.

Answer: _____ [3]





13. The cash price of a stove is \$800. It can also be bought on hire purchase by paying a 20% deposit followed by 12 monthly payments of \$75 each. Calculate

(a) the amount of the deposit

Answer: _____ [2]

(b) the total of the monthly payments

Answer: _____ [2]

(c) the total cost of the stove using the hire purchase plan

Answer: _____ [2]

(d) how much money is saved by paying cash?

Answer: _____ [2]



14. Maxine earns \$12 per hour when she works a basic week of 40 hours. Overtime is paid at double time.

(a) Calculate her basic weekly pay.

Answer: _____ [2]

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

Answer: _____ [1]

(c) Last week, Maxine worked a total of 56 hours.

(i) How many hours of overtime did she work?

Answer: _____ [1]

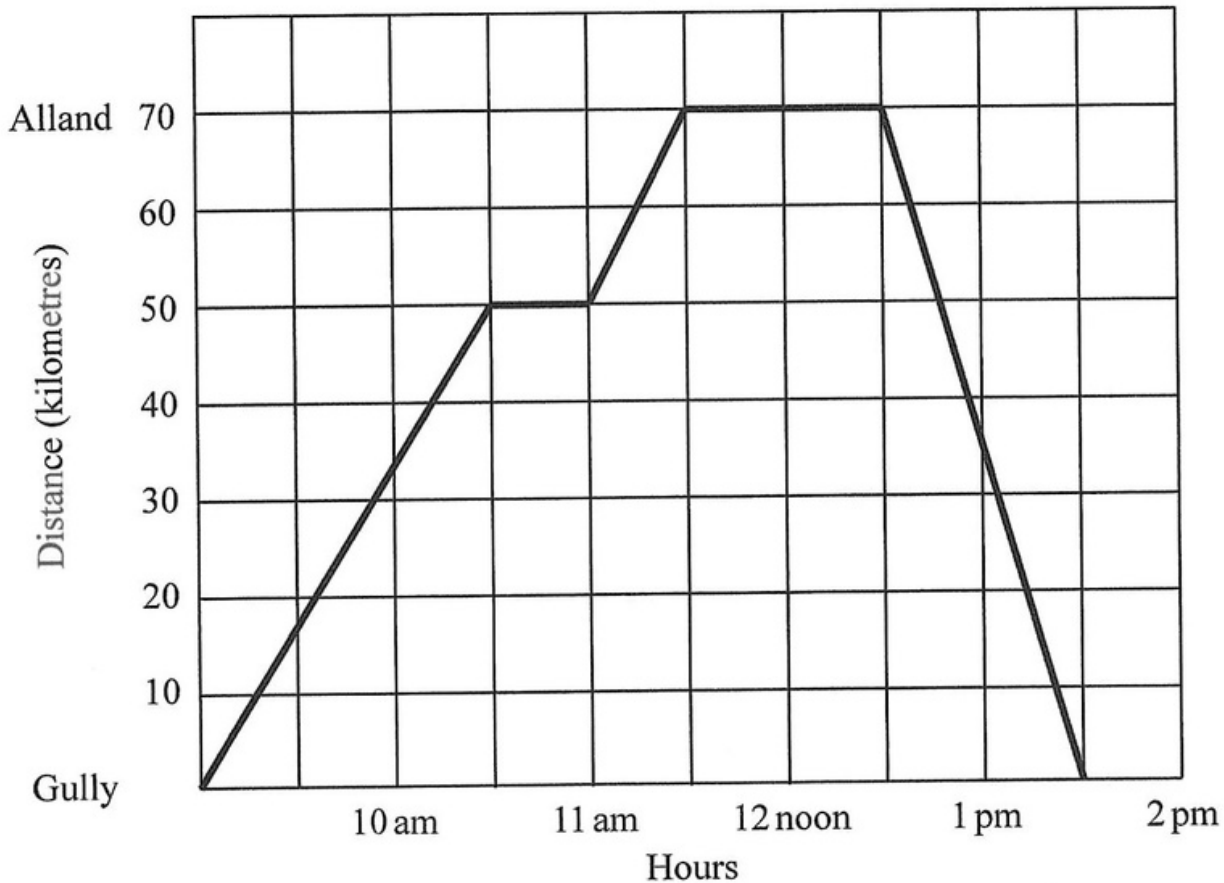
(ii) How much was her overtime pay?

Answer: _____ [2]

(d) Calculate Maxine's total earnings when she worked 56 hours.

Answer: _____ [1]

15. The graph below shows a car journey from Gully to Alland and back.



- (a) At what time did the journey begin? _____ [1]
- (b) How far is it from Gully to Alland? _____ [1]
- (c) How long did the car stop in Alland? _____ [1]
- (d) How long did the entire journey take? (**do not include stops**)
_____ [2]
- (e) How far did the car travel for the entire journey?
_____ [1]
- (f) Calculate the average speed for the entire journey. (**do not include stops**).
_____ [1]

Give answer correct to nearest whole number.



_____ [3]

16. (a) Write an expression for each of the following.

- (i) Patrice thinks of a number x , she multiplies it by 4 then subtracts 3.

Answer: _____ [1]

- (ii) Angelo thinks of the same number x , he multiplies it by 2 then subtracts 7

Answer: _____ [1]

(b) The two expressions are equal.

Form an equation to show this.

Answer: _____ [1]

(c) Solve your equation to find the value of x .

Answer: _____ [4]

17. (a) Mr. Green bought the following items from the food store. Calculate his total bill.



Item	Cost	Total
5 apples	\$1.09 each	(a)
8 oranges	2 for 99¢	(b)
1 watermelon	\$15.99 each	(c)
TOTAL		(d)

[7]

- (b) Mr. Green gave the cashier **two** – \$20 bills. Calculate his change.

Answer: _____ [2]

