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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2017

0044 MATHEMATICS

PAPER 2 (100 Marks)

Tuesday **6 June 2017** 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 14 printed pages.

1. Add

$$19\,224 + 27 + 584$$

Answer: _____ [2]

2.



In a sale, the price of a bag is reduced by \$40 to \$115. What was the original price of the bag?

Answer \$: _____ [2]

3. Express 90% as

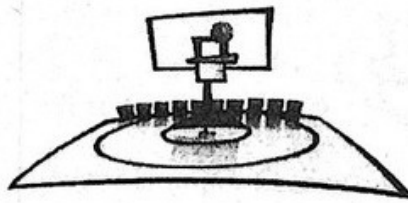
(a) a decimal

Answer: _____ [2]

(b) as a fraction in lowest terms.

Answer: _____ [1]

4.



9 boys can paint a basketball court in 3 hours.

- (a) How long should 1 boy take working at the same rate?

Answer: _____ hrs. [2]

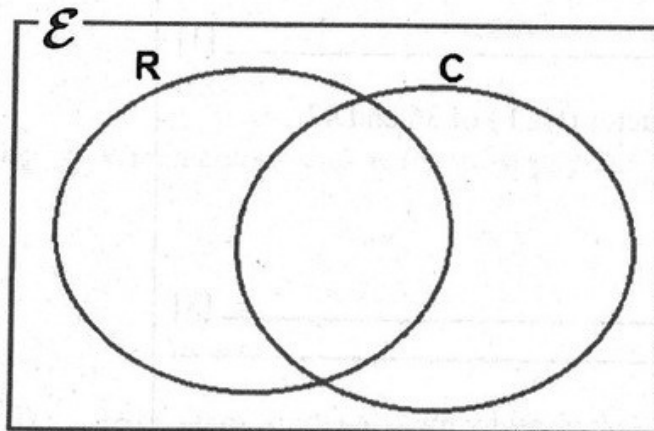
- (b) How long should 5 boys take working at the same rate?

Answer: _____ hrs. [2]

5. 23 students were asked whether they like chicken or ribs.

3 students liked ribs only.
 10 students liked both ribs and chicken.
 14 students liked chicken.
 6 liked neither ribs nor chicken.

Complete the Venn diagram below to show this information.



[4]

6.



Mrs. Davis had a box of exercise books. She has 25 students in her class. She gave each student 6 exercise books.

- (a) How many exercise books did Mrs. Davis give out in total?

Answer: _____ books [2]

There were 56 exercise books left over in the box.

- (b) How many books were there in the box to start with?

Answer: _____ books [2]

7. The prime factorisation of 36 is $2 \times 2 \times 3 \times 3$

- (a) Express 42 as a product of its prime factors.

Answer: _____ [1]

- (b) Hence, find the Highest Common Factor (HCF) of 36 and 42.

Answer: _____ [3]

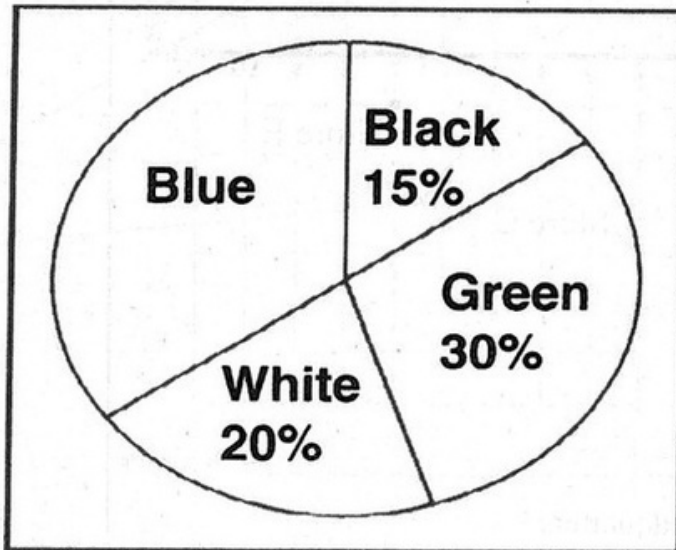
8. (a) Complete each statement using 0, $\frac{1}{2}$ or 1, to make it true.

(i) If an event is impossible, its probability is _____. [1]

(ii) A probability can be no greater than _____. [1]

(iii) When flipping a coin, the probability of "heads" is _____. [1]

(b) The pie chart below illustrates the colours of the socks being worn by 30 students.



(i) What percentage of the students wore blue socks?

Answer: _____ % [2]

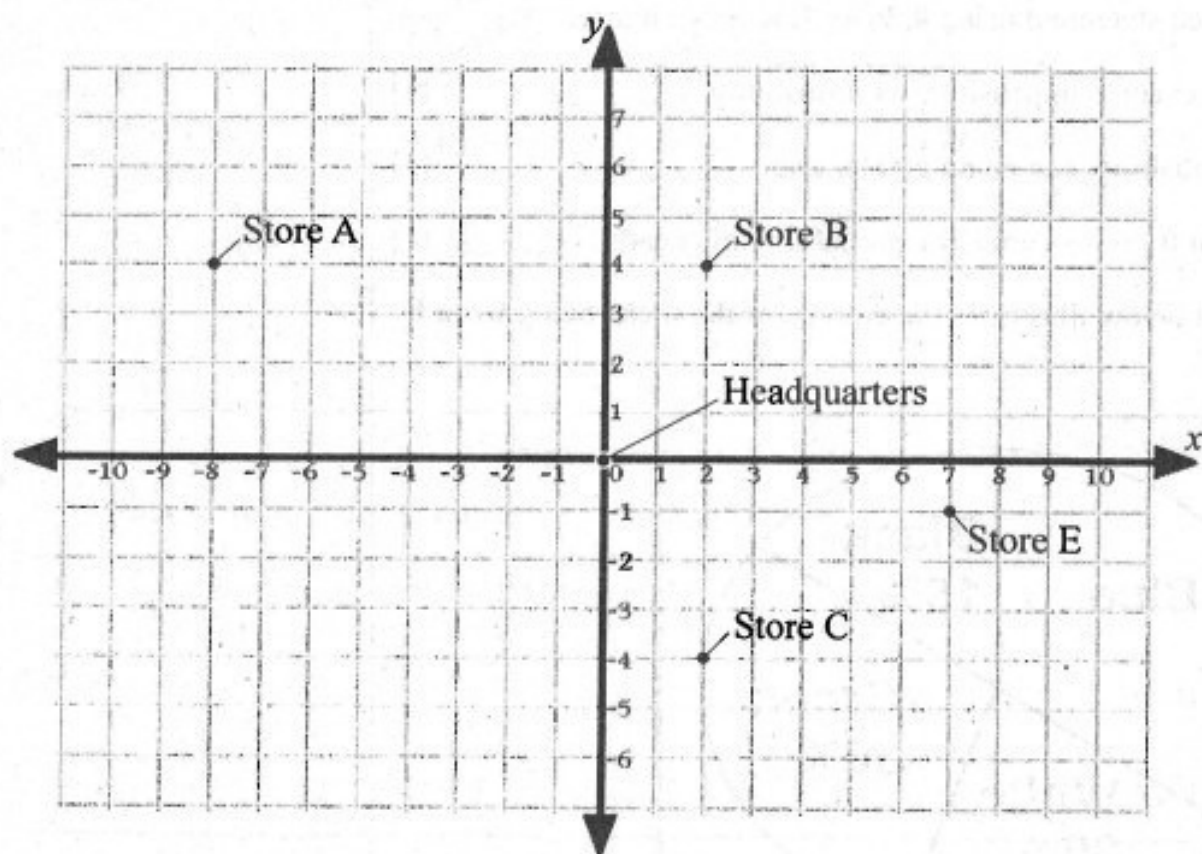
(ii) Which colour sock is the most popular?

Answer: _____ [1]

(iii) How many students wore white socks?

Answer: _____ [2]

9. The five Stores and their Headquarters of a city are shown in the coordinate plane below.



- (a) Give the coordinates of the Headquarters.

Answer: _____ [1]

- (b) Which two stores are the same distance from the Headquarters?

Answer: _____ [1]

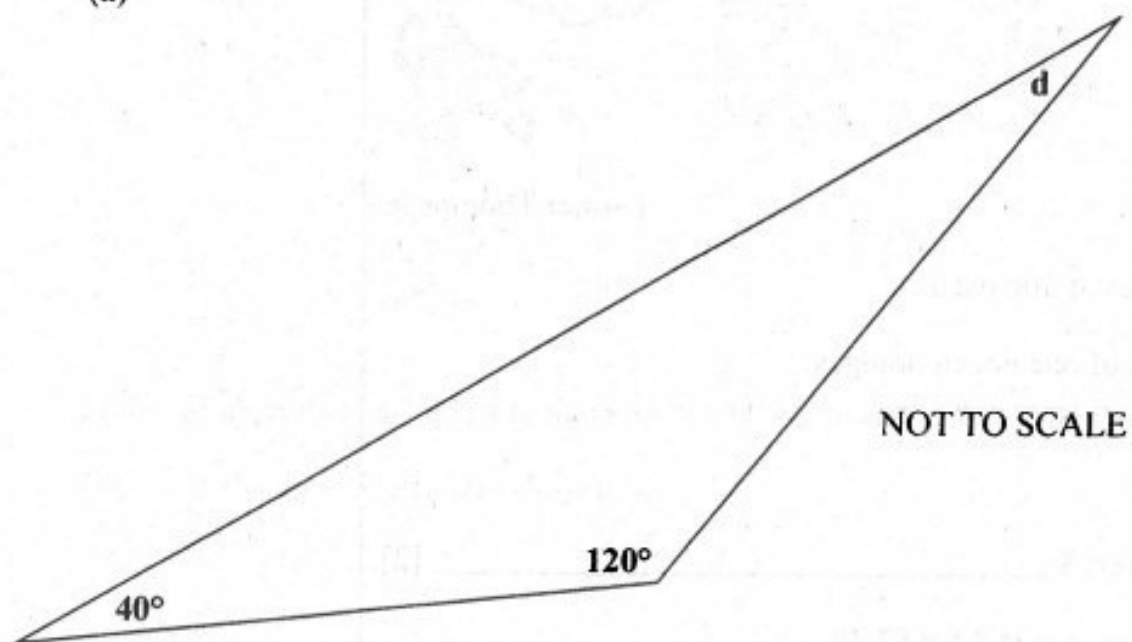
- (c) Store D lies at the coordinates $(-5, 3)$, label Store D on the coordinate plane. [1]

- (d) Store A moves 4 units to the right and 5 units down. Give the coordinates of the new location of Store A.

Answer: _____ [1]

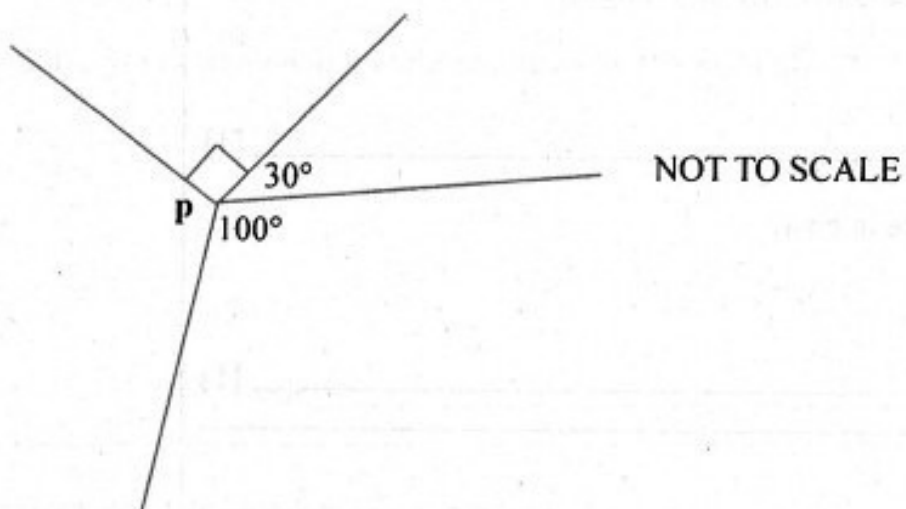
10. Calculate the size of the angles marked by letters in the figures below.

(a)



angle $d =$ _____ $^\circ$ [2]

(b)



angle $p =$ _____ [3]

11.



50¢
each



4 for
\$2.20



Farmer Smith

Farmer Thompson

Farmer Smith sells oranges at 50¢ each.

- (a) Calculate the cost of one dozen oranges.

Answer: \$ _____ [2]

Farmer Thompson sells oranges at 4 for \$2.20.

- (b) Calculate the cost of one dozen oranges.

Answer: \$ _____ [2]

- (c) Which Farmer has the better buy on oranges?

Answer: _____ [1]

- (d) What is the difference in cost?

Answer: _____ [1]

12.



I think of a number, n ,
and add 4.

I think of a number, n . I add 4 to that number. Now I multiply their sum by 2.

- (a) Write an expression to show this.

[2]

My result is 48.

- (b) Form an equation to show this.

[1]

- (c) Solve your equation to find the number I first thought of.

Answer: _____ [3]

-
13. (a) Draw and label the line $PQ = 8\text{ cm}$. [2]

- (b) Using a pair of compasses and a ruler only, **construct** an angle of 60° at P. [3]

- (c) Draw an angle of 40° at Q. [1]

- (d) Complete and label the diagram to form $\triangle PQR$. [2]
-



Raymond earns \$12 per hour when he works a basic week of 40 hours.

- (a) Calculate his basic weekly pay.

Answer: \$ _____ [2]

- (b) Overtime is paid at time and a half. Calculate how much he is paid for 1 hour of overtime.

Answer: \$ _____ [2]

During a certain week, Raymond worked 5 hours of overtime in addition to his basic weekly hours.

- (c) Calculate his total pay for that week.

Answer: \$ _____ [3]

15.



2:3:4

Nancy, Beverly and Todd shared \$3600 in the ratio 2:3:4 respectively.

- (a) Calculate the amount of money that Todd received.

Answer: \$ _____ [3]

- (b) Todd invested his money in the bank for 1 year at 6% simple interest.

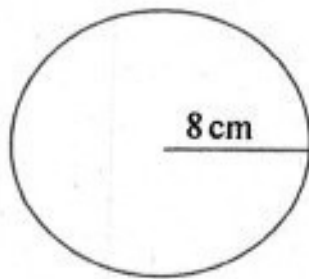
- (i) How much interest does he earn?

Answer: \$ _____ [3]

- (ii) What is the total **AMOUNT** after 1 year's investment?

Answer: \$ _____ [2]

16.

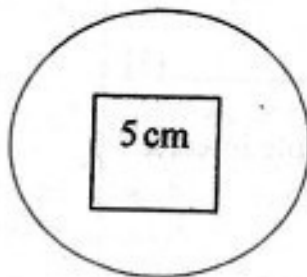


NOT TO SCALE

A circular garden has a radius of 8cm.

- (a) Using $\pi = 3.14$, calculate the area of the garden.

Answer: _____ cm^2 [3]



NOT TO SCALE

A square flower patch of length 5cm is placed in the centre of the garden.

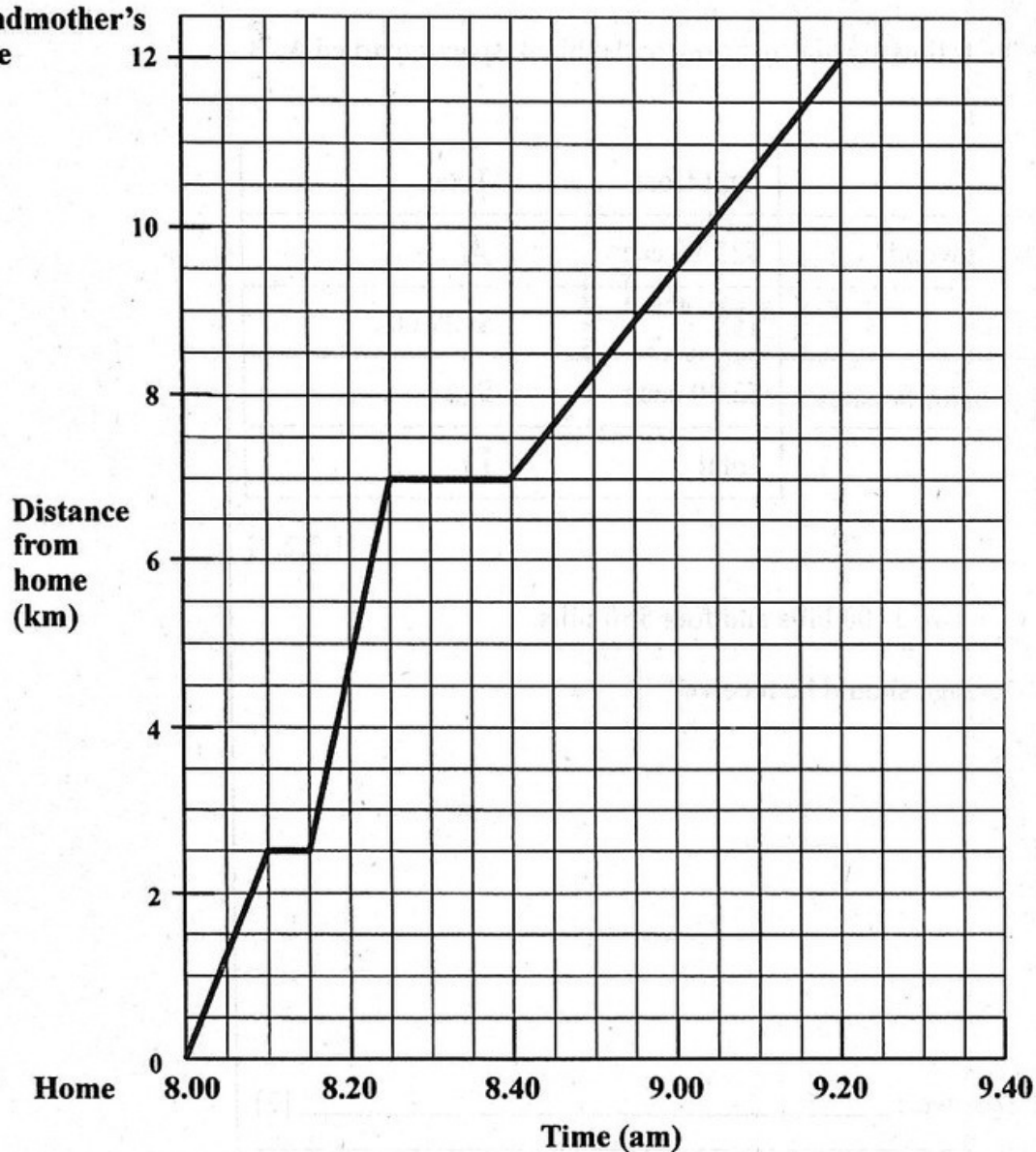
- (b) Calculate the area of the flower patch.

Answer: _____ cm^2 [2]

- (c) Calculate the area of the path around the flower bed.

Answer: _____ cm^2 [2]

17.

Grandmother's
house

- (a) How far has Norman cycled in the first 10 minutes?

Answer: _____ km [1]

- (b) Norman made two stops along his journey. How long did he stop in total?

Answer: _____ mins [3]

- (c) How far from Grandmother's house was Norman at 8.40 am?

Answer: _____ km [1]

- (d) Calculate the average speed for the entire journey (excluding rest stops).

Answer: _____ km/min [4]

18. Max is repairing his apartment.

- (a) Complete the following bill by filling in the blank spaces marked A, B, C and D.

Item	Unit Cost	Total
8 sheets plywood	\$23.20 each	A
3 cans paint	B	\$129.60
C paint brushes	\$2.40 each	\$12
	Total	D

[1,2,2,1]

Max pays his bill with two \$100 bills and four \$50 bills.

- (b) How much change should he receive?

Answer: _____ [3]
