FOR EXAMINERS' USE ONLY	
TOTAL	

SCHOOL No.	CANDIDATE No.
INITIALS	SURNAME

MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2020

0044 MATHEMATICS

PAPER 1 (50 Marks)

Thursday **28 MAY 2020** 9:00 A.M.–10:00 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 in **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 draw to scale unless otherwise indicated.

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

ROUGH WORK

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

1. (a)
$$\begin{array}{r} 3872 \\ 145 \\ +\ 89 \\ \hline \\ \hline \end{array}$$

Answer: (a) _____ [1]

(b)
$$\begin{array}{r} 9873 \\ -1426 \\ \hline \\ \hline \end{array}$$

Answer: (b) _____ [1]

2. (a)
$$\begin{array}{r} 239 \\ \times\ 8 \\ \hline \\ \hline \end{array}$$

Answer: (a) _____ [1]

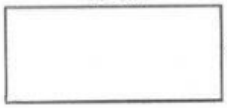
(b) $7\overline{)5649}$

Answer: (b) _____ [1]

3. Write one hundred twenty thousand five hundred six in figures.

Answer: _____ [1]

4. A rectangle is 8 cm wide and 12 cm long. Write the ratio of the length to the width in its simplest form.



NOT DRAWN TO SCALE

Answer: _____ [2]

ROUGH WORK

5. If $a = 10$ and $b = 7$ calculate the value of $\sqrt{a + b - 1}$

Answer: _____ [2]

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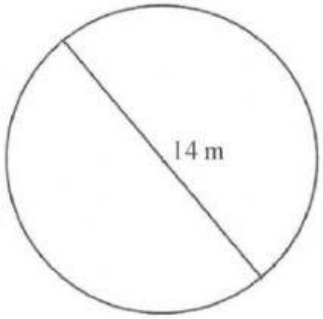
6. Use $\pi = \frac{22}{7}$, calculate the perimeter of the circle.



Answer: _____ [2]

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7. Bisect the angle drawn below. [3]

ROUGH WORK

8. Complete the chart below.

Percentage	Fraction	Decimal
21%	a)_____	0.21
b)_____	$\frac{17}{20}$	0.85
9%	$\frac{9}{100}$	c) _____

[3]

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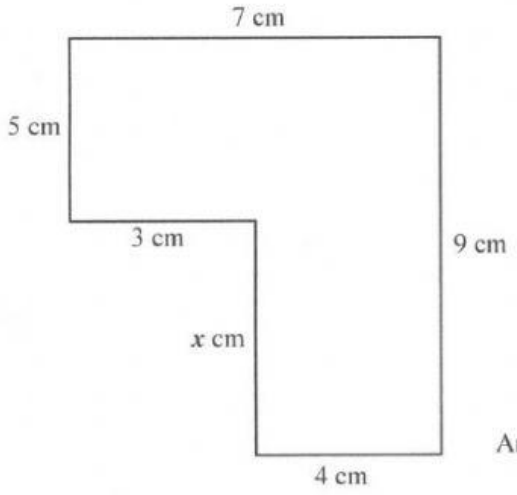
9. (a) In the diagram below, find the length of the side marked x.



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Answer: _____ [1]

(b) Find the perimeter of the shape.

Answer: _____ [2]

ROUGH WORK

10. Calculate the probability of selecting

(a) a head on a coin

Answer: _____ [1]

(b) a red Jack from a deck of cards.

Answer: _____ [1]

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11. Draw an example of a

(a) ray

[1]

(b) pentagon

[1]

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12. (a) List the next prime number after 7. Answer: _____ [1]

(b) List the first two multiples of 8. Answer: _____ [2]

(c) Prime factorize

(i) 16

Answer: _____ [1]

(ii) 24

Answer: _____ [1]

(iii) Calculate the lowest common multiple of 16 and 24.

Answer: _____ [1]

ROUGH WORK

13. Evaluate

(a) $\left(\frac{1}{5}\times\frac{2}{5}\right)+1\frac{11}{25}$

Answer: _____ [2]

(b) $2\frac{1}{3}\div\frac{21}{24}$

Answer: _____ [2]

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14. (a) Simplify

$5g + 3\,(2f - g)$

Answer: _____ [2]

(b) Factorize completely

$12a + 8ab$

Answer: _____ [2]

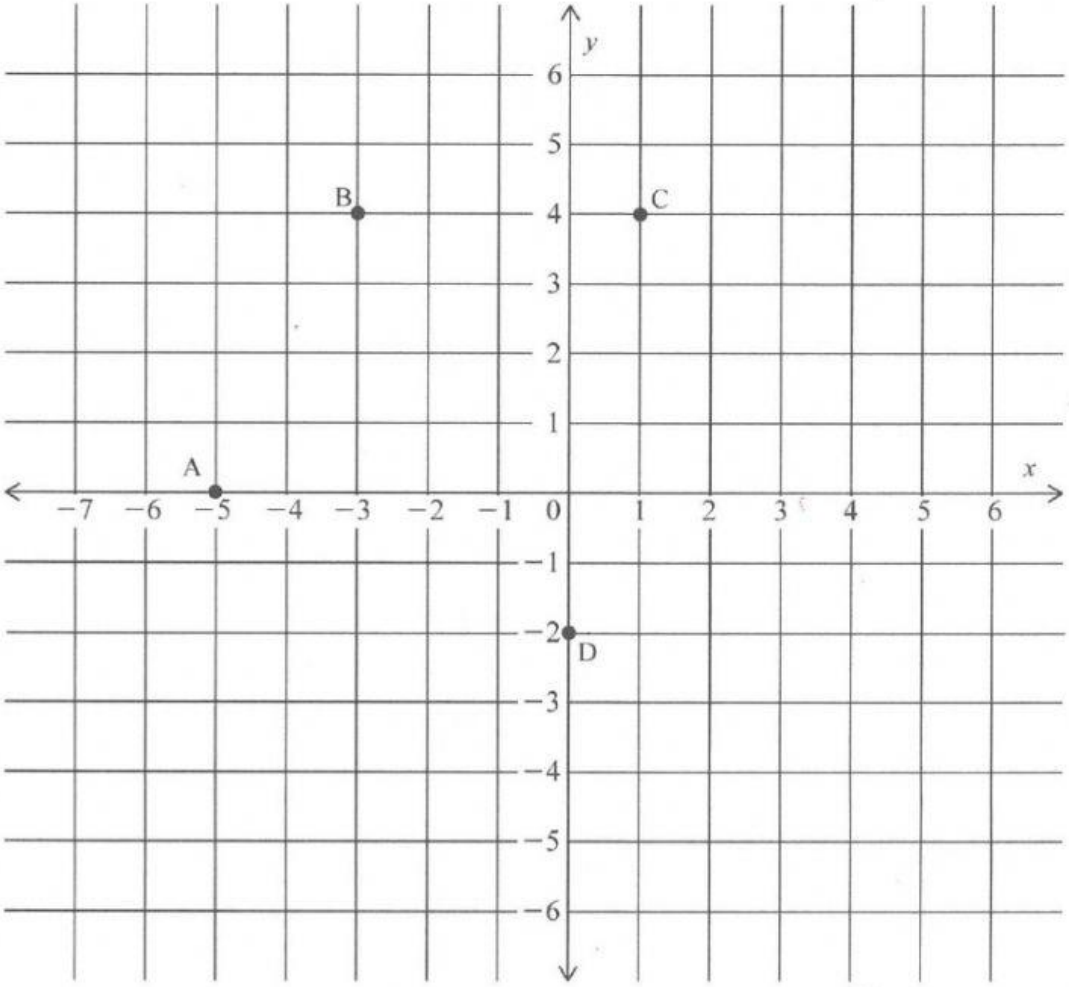
(c) Solve for h

$3h + 4 = 13$

Answer: _____ [2]

ROUGH WORK

15.



(a) Use a ruler and pencil to join the points ABCD in **order** to form a quadrilateral. [1]

(b) Draw in the two diagonals of the quadrilateral. [2]

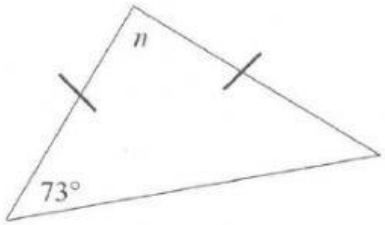
(c) Write the coordinates of the point where the two diagonals intersect.

(_____, _____) [1]

ROUGH WORK

16. Calculate the size of the angles marked by letters

(a)



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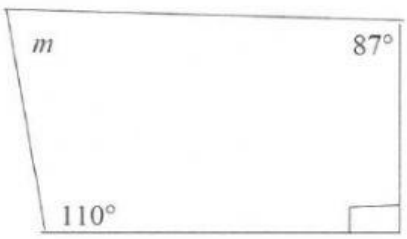
Answer: _____ [3]

(b)



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Answer: _____ [3]