FOR EXAMINERS' USE ONLY	
Total Marks	

SCHOOL No.	CANDIDATE No.
INITIALS	SURNAME

MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2001

0044 MATHEMATICS

PAPER 1 (50 MARKS)

Thursday **7 June 2001** 9:00–10:00 A.M.

INSTRUCTIONS TO CANDIDATES

Write your school number, candidate number as well as your Initials and Surname in the spaces provided on the question booklet.

Answer **ALL** questions in the spaces provided on the question paper.

ALL working must be shown.

Diagrams are not drawn to scale unless stated.

The use of calculators, slide rules, tables or other calculation aids is **NOT** allowed.

ALL working must be done in **blue or black ink**. Working and answers written in pencil may not be marked.

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

This question paper consists of **9** printed pages.

ROUGH WORK

1. (a)
$$\begin{array}{r} 3826 \\ +\ 170 \\ 5 \\ 34 \\ \hline \\ \hline \end{array}$$

Answer _____ [1]

(b)
$$\begin{array}{r} 9875 \\ -\ 1940 \\ \hline \\ \hline \end{array}$$

Answer _____ [1]

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2. (a)
$$\begin{array}{r} 439 \\ \times\ 5 \\ \hline \\ \hline \end{array}$$

Answer _____ [1]

(b) $9\overline{)723}$

Answer _____ [1]

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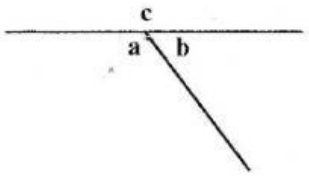
3. Write the ratio 36 : 56 in its lowest terms.

Answer _____ [1]

ROUGH WORK

4. From the diagram below, write down the sum of $\angle \mathbf{a} + \angle \mathbf{b} + \angle \mathbf{c}$.



Answer _____ [1]

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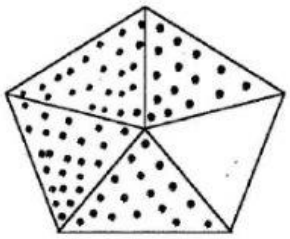
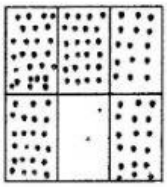
5. Circle the figure that represents $\frac{5}{6}$.





[1]

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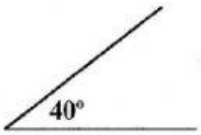
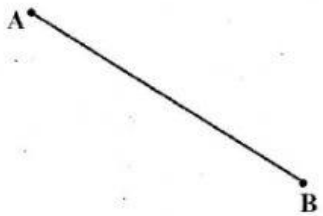
6. Use your protractor to draw an angle equal in size to the angle shown below. Use the line **AB**.

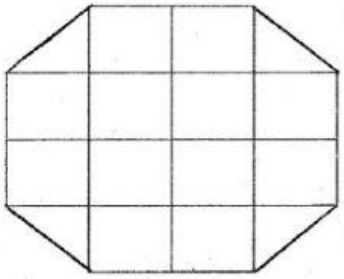




[1]

ROUGH WORK

7.



The area of each square is 1 square centimetre. Write down the area of the figure shown above.

Answer _____ cm^2 [1]

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8. Express 0.75 as a fraction in its lowest terms.

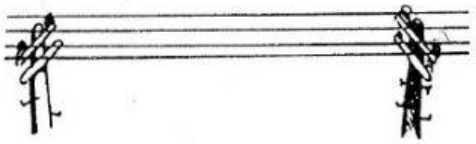
Answer _____ [2]

ROUGH WORK

9. The pictures show High Tension Electrical Wires. Using the words listed below, name the types of lines suggested by each picture.

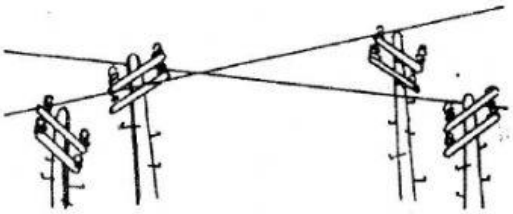
parallel, intersecting, perpendicular

(a)



Answer _____ [1]

(b)



Answer _____ [1]

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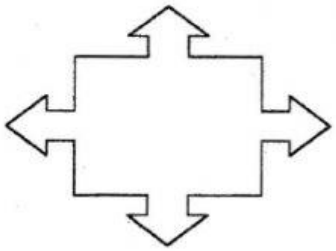
10. A school's playground, measuring 33 metres, 43 metres, 50 metres and 25 metres, is enclosed by a chain link fence. How many metres of fencing is used?

Answer _____ [2]

ROUGH WORK

11. Draw in the line(s) of symmetry in the shape below.



[2]

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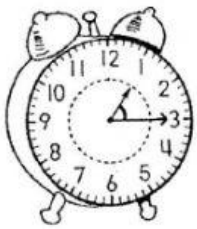
12. Use the list below to name the angle formed by the hands of each clock.

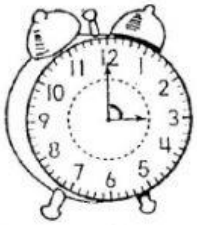
RIGHT ANGLE, ACUTE ANGLE, OBTUSE ANGLE

(a)



Answer _____ [1]

(b)



Answer _____ [1]

(c)

Answer _____ [1]

ROUGH WORK

13. (a) Find the sum of 238 and 439.

Answer _____ [2]

(b) Write your answer to part (a) correct to the nearest ten.

Answer _____ [1]

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14. Simplify

(a) $2g - 3g + 5g$

Answer _____ [1]

Solve

(b) $3a - 9 = 0$

Answer _____ [2]

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15. Rewrite the following sentences, using set notation.

(a) 12 is a member of the set G.

Answer _____ [1]

(b) D is an empty set.

Answer _____ [1]

(c) The number of elements in set B is 10.

Answer _____ [1]

ROUGH WORK

16. Given that $a = -1$, $b = 4$ and $c = -3$, find the value of

$$\frac{c+b}{b+a}$$

Answer _____ [3]

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17. Calculate 60% of 25 metres.

Answer _____ m [3]

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18. Mrs. Bain earns \$30,483 per year.

(a) How much money does she earn in one month?

Answer \$ _____ [3]

(b) Write your answer in (a) correct to the nearest dollar.

Answer \$ _____ [1]

ROUGH WORK

19. Find the value of

$(0.81 \div 0.09) + (0.81 \div 9)$

Answer _____ [5]

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20. (a) On the graph paper below, plot and join the following points in the order given.

A = (2, 2), B = (4, 2), C = (6, 4), D = (0, 4).

[5]

(b) Give the special name of the quadrilateral formed.

Answer _____ [1]