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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2024

0044 MATHEMATICS

PAPER 1 (50 Marks)

Friday **31 MAY 2024** 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 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 7 printed pages and 1 blank page.

1. (a)
$$\begin{array}{r} 7409 \\ 362 \\ + 57 \\ \hline \end{array}$$

Answer: _____ [1]

(b)
$$\begin{array}{r} 9367 \\ - 1425 \\ \hline \end{array}$$

Answer: _____ [1]

2. (a)
$$\begin{array}{r} 743 \\ \times 6 \\ \hline \end{array}$$

Answer: _____ [1]

(b) $8 \overline{)5264}$

Answer: _____ [1]

3. State the value of 2 in 53276

Answer: _____ [1]



4. From the set of numbers {9, 10, 11, 12},
using each number **only once**, write down a/an:

- (a) even number, _____ [1]
(b) square number, _____ [1]
(c) prime number, _____ [1]
(d) multiple of 4. _____ [1]
-

5. Given the number **0.18**,

- (a) write in word form _____ [1]
(b) round to the nearest tenth _____ [1]
-

6. Express 88% as a

- (a) decimal,

Answer: _____ [2]

- (b) fraction in its lowest term.

Answer: _____ [2]

7. Complete the sequence.

- (a) 6, 9, 12, 15, 18, _____, _____. [2]
(b) 3, 5, 9, 15, 23, _____, _____. [2]
-

8. Calculate $\frac{2}{3}$ of 27.

Answer: _____ [2]

9. The prime factorisation of a number is $2 \times 2 \times 2 \times 3 \times 5$.

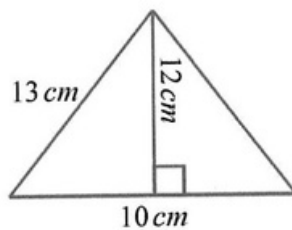
(a) Write the above product in index form.

Answer: _____ [1]

(b) What was the factorised number?

Answer: _____ [1]

10. Calculate the area of the triangle shown in the diagram below.



Answer: _____ cm^2 [3]



11. (a) Simplify the following expression

$$3x + 4y + 9y + 5x - 11y$$

Answer: _____ [2]

- (b) Given that $m = 7$ and $n = 2$, calculate the value of

$$mn + 5$$

Answer: _____ [2]

- (c) Solve for k .

$$\frac{k}{3} = 12$$

Answer: _____ [1]

-
12. The ratio of boys to girls in a class is 3 : 5 respectively.

If there are 15 girls in the class, determine the

- (a) number of boys in the class,

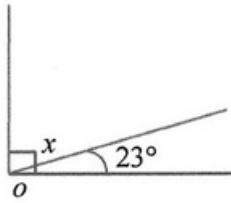
Answer: _____ [2]

- (b) total number of students in the class.

Answer: _____ [1]

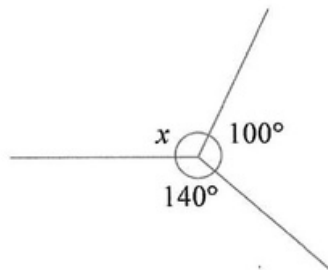
13. Calculate the missing angles marked with the letter x in the shapes below.

(a)



Answer: _____° [2]

(b)



Answer: _____° [3]

14. Tommy picks 56 mangoes. Jackie picks 38 mangoes.

(a) Calculate the number of mangoes that were picked altogether.

Answer: _____ [2]

They used the mangoes to make jam and 15 mangoes were left over.

(b) Calculate the number of mangoes that were used to make the jam.

Answer: _____ [2]



15. A jar contains 13 gumballs. 7 red, 4 blue and 2 yellow.

If a gumball is selected at random, what is the probability of selecting a

(a) blue,

Answer: _____ [1]

(b) red or yellow,

Answer: _____ [2]

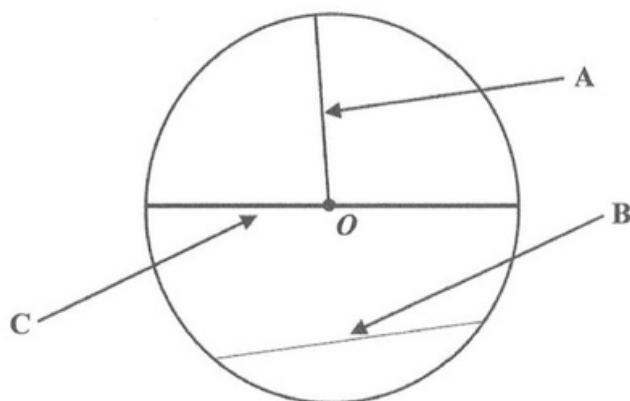
(c) white.

Answer: _____ [1]

16. Use the words in the box below to label the circle.

“O” is the centre of the circle.

diameter	radius	chord	segment
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Answer: **A** _____ [1]

Answer: **B** _____ [1]

Answer: **C** _____ [1]

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