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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2017**

**0044 MATHEMATICS
PAPER 1 (50 Marks)**

Thursday **1 JUNE 2017** 9:00 A.M.–10:00 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 6 printed pages and 2 blank pages.

Answer ALL questions in the spaces provided. Show all necessary working.

1. (a)
$$\begin{array}{r} 7150 \\ + 624 \\ \hline 92 \\ \hline \end{array}$$
 [1]

(b)
$$\begin{array}{r} 9458 \\ - 1672 \\ \hline \end{array}$$
 [1]

2. (a)
$$\begin{array}{r} 6105 \\ \times 6 \\ \hline \end{array}$$
 [1]

(b)
$$5 \overline{)1525}$$
 [1]

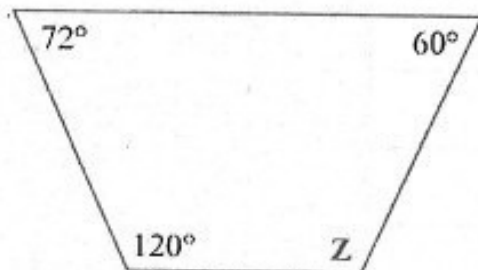
3. (a) State the value of 9 in the number 39.312

Answer: _____ [1]

- (b) Write down the next prime number after 37.

Answer: _____ [1]

4. Calculate the size of angle z in the diagram below.



Answer: _____ [3]

5. Fill in the blanks using $<$, $>$ or $=$ to make each statement true.

(a) 1 _____ $\frac{5}{5}$

(b) $\frac{1}{2}$ _____ $\frac{1}{4}$

(c) $\frac{1}{3}$ _____ $\frac{1}{2}$

[3]

3. Find the value of

(a) 3^3

Answer: _____ [1]

(b) $13 + \sqrt{9}$

Answer: _____ [2]

7. (a) Add $65 + 6.5 + 0.65$

Answer: _____ [2]

(b) Round your answer from (a) to the nearest whole number.

Answer: _____ [1]

8.



1 gallon of juice costs \$6 plus 7.5% VAT charges. What is the total cost of the juice?

Answer: \$ _____ [3]

9. (a) Fill in the box to make the statement true.

$$\frac{3}{7} = \frac{21}{\square}$$

[1]

(b) Simplify

$$4\frac{1}{2} \times \frac{1}{4}$$

Answer: _____ [3]

10. (a) Simplify

$$8a + 3b - 2a + 4b$$

Answer: _____ [2]

- (b) Solve for x

$$x + 16 = 19$$

Answer: _____ [1]

-
11. Find the value of

$$3 \times 8 - 8 \div 2$$

Answer: _____ [3]

-
12. If $A = \{2, 3, 4\}$ and $B = \{3, 5, 7\}$ List the members of

(i) $A \cup B$

Answer: { _____ } [1]

(ii) $A \cap B$

Answer: { _____ } [1]

(iii) $n(A \cup B)$

Answer: { _____ } [1]

-
13. From the set of numbers $\{3, 1, 3, 5, 2, 7, 5, 4, 3, 5\}$

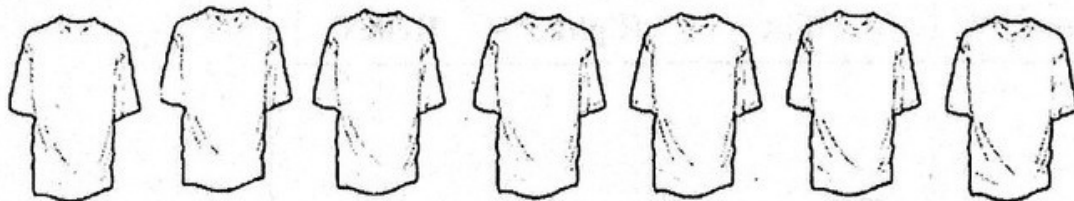
- (a) Write down the mode

Answer: _____ [2]

- (b) Calculate the mean

Answer: _____ [3]

14. Seven T-shirts cost \$28.



Calculate the cost of

- (a) 1 T-Shirt

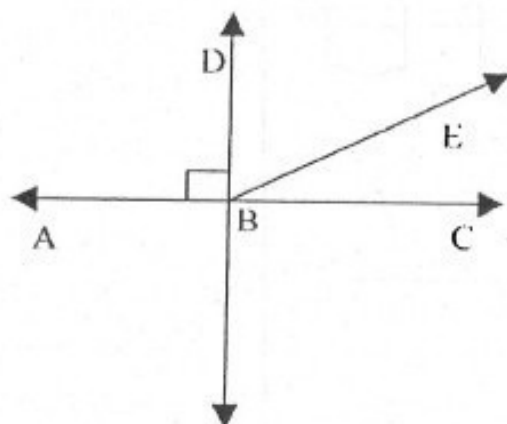
Answer: \$ _____ [2]

- (b) 5 T-Shirts

Answer: \$ _____ [2]

15. Use the words in the box below to identify the named angles below.

Acute	Obtuse	Straight	Right	Reflex
-------	--------	----------	-------	--------



(i) $\widehat{ABD}$

Answer: _____ [1]

(ii) $\widehat{ABE}$

Answer: _____ [1]

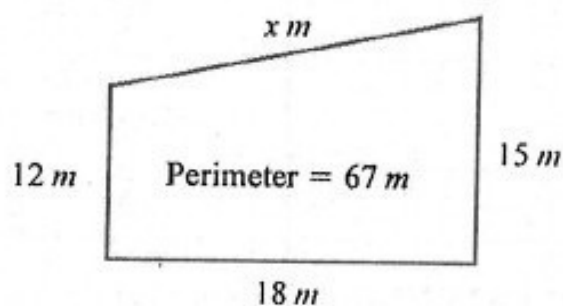
(iii) $\widehat{ABC}$

Answer: _____ [1]

(iv) $\widehat{DBE}$

Answer: _____ [1]

16. The diagram below represents a plot of land. The perimeter is 67 m.



Calculate the length of the side marked x .

Answer: _____ m [3]