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ප්‍රථම වාර පරීක්ෂණය - 2020 මාර්තු
1st Term Test - March 2020

ශ්‍රේණිය } **8**
 Grade }

විෂයය } **Mathematics**
 Subject }

පත්‍රය } **I,II**
 Paper }

කාලය } **2 hours**
 Time }

නම :-

පංතිය :-

Part 1

- Answer all the questions on this paper itself

01. Write the next two terms,

5, 7,9,11 ,

02. Simplify $(-7) + (+4) + (-2)$

03. If $2x-7 = 13$, Find the value of x

04. Simplify $3a +5b - 3a + b$

05. $2 X x X x X y X y$ write in index notation.

06. Simplify $(2a) x (3b)$

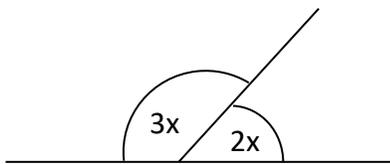
07. Write the reciprocal of $\frac{2}{5}$

08. If $A = \{ \text{factors of } 18 \}$, Represent the A in Venn diagram.

09. Write the suitable value for the blank.

$$32 \times 65 \times 1000 = \boxed{}$$

10.



Find the value of x

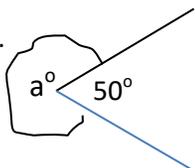
11. Find the highest common factor of 8, 12 and 24

12. Write 32 in index form as base of 2.

13. Express $\frac{2}{5}$ as a percentage.

14. The scale diagram drawn to the scale 1:100. Find the actual length represented by 5cm.

15.



Find the value of a.

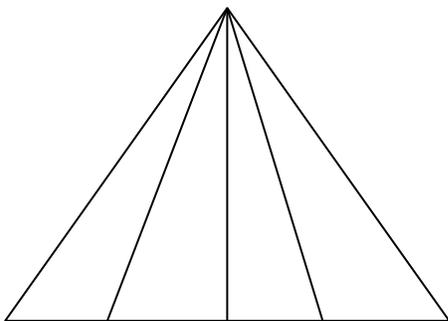
16. Find the value of $(+2) - (-3)$ by using number line.

17. Price of a book is Rs. t . Price of it was increased in Rs.5 . Write an algebraic expression of the price of 5 such books.

18. Then length of a side of a square shaped frame made with wire is 3cm. If the wire is unfolded and equilateral triangle is made. Find the length of a side of that triangle.

19. Find the general term of square number pattern starting from 1.

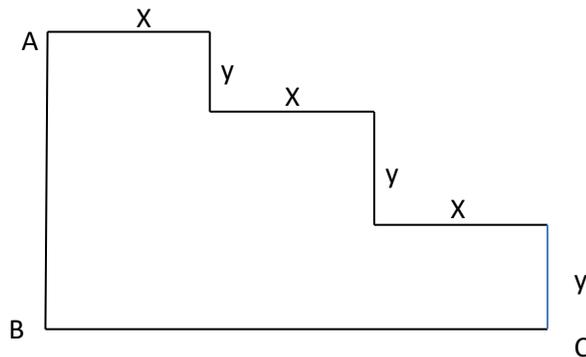
20. How many triangles are there in this figure.



Part 2

- Answer all the questions

01. (A) Answer the following questions according to the given compound figure.



- State the length of AB using x.
- State the length of BC using y.
- Build up an algebraic expression for the perimeter of the above compound figure and simplify it.
- Find the perimeter of the figure when $x = 3$ and $y = 4$.
- Copy the given diagram to the answer script and illustrate the way to separate it to find its area.
- Find its area when $x = 3$ and $y = 4$.

(B) The price of a mango is Rs.P and the price of a pomegranate is three times of the price of a mango.

- Nimal buys a mango and a pomegranate and he gives Rs.100 to the vendor and the balance is Rs.20. Make an equation related to the given information.
- Find the price of a mango and pomegranate by solving the equation above.

02. (A) 1) $1\frac{2}{5}$ convert into decimal number.

2) Write 0.5 as a percentage.

(B) Find the values of following

1) 2.043×4

2) $1.36 \div 10$

3) $25.824 \div 8$

(C) Simplify $3\frac{1}{5} \div 1\frac{2}{5}$

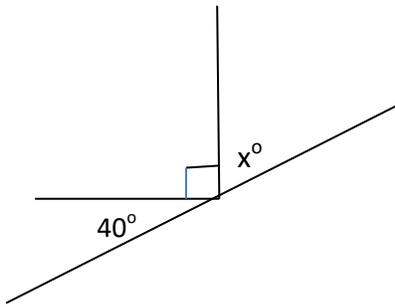
03. (A) In the number pattern $6n + 3$,

- I. Find its 5th term.
- II. Which term is 123 ?
- III. Show that 95 is not a term of this number pattern.

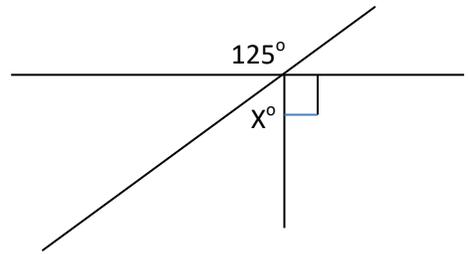
(B) Common term of a triangular number pattern is $\frac{n(n+1)}{2}$

- I. Find its 8th term.
- II. Which square number is it ?

04. (A) Find x .



(ii)



(i)

(B)

- I. The complement of 36° is
- II. The supplement of 124° is

(05) (A) Find the values of followings.

I. $\frac{(-36)}{(-6) \times (-2)}$

II. $\frac{(+5) \times (-4)}{(-2) \times (-2)}$

III. $(-5) - (+2) - (-6)$

(B) Simplify the algebraic expressions given below.

I. $4(x+7)$

II. $6(2x-1)$

(C) Find the value if $2x^2 + y$, when $x = 2$ and $y = 3$.