GOVT.KARNATAKA PUBLIC SCHOOL SRIRAMPURA

Hosadurga tq. Chitradurga dt. Dt:30/ 09/2019

First summative assessment. September – 2019.

Class :8th Sub: Mathematics. Time :1:30 Hour. Marks:40

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I Multiple choice questions (select correct Answer) 8 x 1 = 8

1) Normal form of (7 x 1000) + (6 x 1) is .....

(A) 706 (B) 7006 (C) 761 (D) 7061

2) $\sqrt{1764}$ = ...

(A) 38 (B) 43 (C) 41 (D) 42

3) $(a-b)^2$ =.....

(A) $a^2 + b^2 + 2ab$ (B) $a^2 - b^2 - 2ab$ (C) $a^2 - 2ab + b^2$ (D) $a^2 - ab + b^2$

4) Father of Geometry is .....

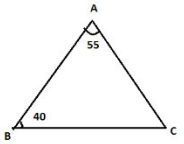
(A) Euclid (B) Pythagorus (C) Archemedes (D) Apollonius

5) If pq = 18 and p + q = 11 then p and q respectively are

(A) 8 , 1 (B) 9 , 2 (C) 6 , 3 (D) 7 , 4

6) In a given ΔABC , if $\angle A = 55^o$ and $\angle B = 40^o$, then $\angle C$ = ...

(A) 55° (B) 40° (C) 85° (D) 95°



7) Identity elements for addition and multiplication respectively are

(A) + , x (B) 0 , 1 (C) 1 , 0 (D) 1 , 1

8) If $\frac{x}{5}$ = 12 , then the value of x is .....

(A) 5 (B) 12 (C) 60 (D) 17

II Very short answer questions 4 x 1 = 4

9) Find the digits represented by the letter.

$$\begin{array}{r} 1\ 6 \\ +\ 2\ A \\ \hline B\ 1 \\ \hline \end{array}$$

10) Write the divisibility rule by 6 .

11) Find the product of (5x + 8) 3x

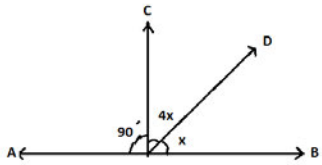
12) Identify the property in the following statement
2 + (3 + 4) = (2 + 3) + 4

III Short answers questions **7 x 2 = 14**

13) Find the square of 72 by using suitable identity.

14) Add 5a + 3b , a – 2b and 3a + 5b

15) Find the value of x in the following diagram



16) Factorise : $x^2 – x – 72$.

17) What are : (i) Axioms (ii) Postulates

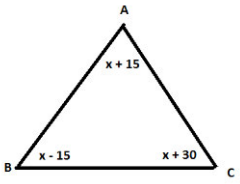
18) Write down ten rational numbers , which are equivalent to $\frac{5}{7}$ and the denominator not exceeding 80

19) Simplify : $(3x^2 + 2x) (2x^2 + 3)$

IV Long answer questions **3 X 2 = 6**

20) Using the numbers from 5 to 13 , construct 3 x 3 magic square .what is the magic sum here ? What relation is there between the magic sum and the number in the central cell ?

21) In the adjacent triangle ABC . find the value of x and calculate the measure of all the angles of the triangle ?



IV Long answers questions **4 X 2 = 8**

22) Prove that " In any triangle the sum of the three interior angles is 180^o.

23) Find the nearest integer to the cuberoot of 331776.