DEVAMATHA CMI PUBLIC SCHOOL

PERIODIC TEST I 2017 -18

Std. VIII

MATHEMATICS

Time : 90 mts.
Marks : 40

General Instructions :

1. All questions are compulsory.
3. Question numbers 1 to 6 carry 1 mark each.
4. Question numbers 7 to 11 carry 2 marks each.
5. Question numbers 12 to 15 carry 3 marks each.
6. Question numbers 16 to 18 carry 4 marks each.

PART - A

Choose the correct answer: (1x6=6)

1. Each angle of a rectangle is _____

   [30^0, 110^0, 90^0 180^0]

2. Multiplicative Identity for Rational Numbers is _____.

   [0, 1, -1, 10]

3. How many diagonals are there for a triangle?

   [3, 2, 1, none of these]

4. What is the interior angle sum of a kite?

   [180^0, 360^0, 1080^0, 720^0]

5. How many rational numbers are there between 5 and -5?

   [5, 10, 25, infinitely many]

6. What is the value of p if 4p = 32?

   [4, 32, 8, 128]

PART - B

7. Find the number of sides of a regular polygon whose each exterior angle is 45^0. (2x5=10)

8. Represent the following numbers on a number line:

   $\frac{-1}{5}$, $\frac{7}{5}$, $\frac{1}{5}$, $\frac{4}{5}$

9. Multiply $\frac{7}{2}$ by the reciprocal of $\frac{2}{3}$

10. The area of a Rectangle is $56m^2$ and it's breadth is 7m. Find it's length.

    [Form an equation and solve.]

11. Solve the following:

    (i) $\frac{x}{4} = 7$ (ii) $2y + 3 = 23$

PART - C

(3x4=12)

12. Draw a Square of side 5 cm.

13. Solve by using Distributive Pproperty:

$$\left(-1 \times \frac{1}{4}\right) + \left(\frac{1}{2} \times \frac{1}{4}\right)$$

14. Solve the following equations:

    (i) $\frac{9t}{7 - 6t} = 15$

    (ii) $3(5x - 7) - 2(9x - 11) = 4(8x - 13) - 17$

15. The difference between two whole numbers is 66. The ratio of the two numbres is 5: 2. What are the two numbres?

PART - D

(4x3=12)

16. Construct a quadrilateral PQRS if

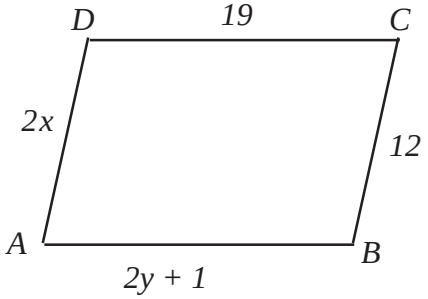
    PQ = 5.3 cm, QR = 4cm,

    RS = 6.5 cm $< Q = 70^0$ and

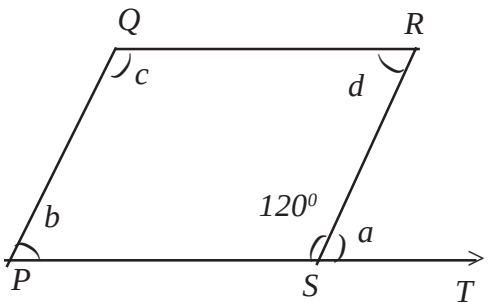
    $< R = 120^0$

17. Find unknown values for the following Parallelograms.

i)



ii)



18 A positive number is 5 times another number. If 21 is added to both the numbers, then one of the new numbers becomes twice the other new number. What are the numbers?