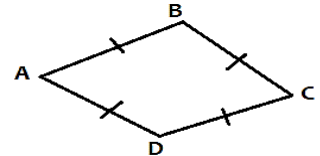


SECOND SUMMATIVE EVALUATION [SA-2] MARCH 2020
MATHEMATICS

8TH STANDARDTOTAL TIME: $1\frac{1}{2}$ hr. MAX.MARKS:40I Answer the following by choosing suitable answer

1 x 4 = 4

- 1) $(a^m)^n$ is equal to
 A) a^{m+n} B) a^{mn} C) a^{m-n} D) a^{m^n}
- 2) $(0, y)$ which is the co-ordinate of Cartesian graphs. The point lies on
 A) X-axis B) Origin C) III Quadrant D) y-axis
- 3) In a figure all sides are equal therefore diagonals bisect each other at
 A) Straight angle B) Right angle
 C) Not always Right angle D) some time acute angle.
- 4) Which of the following is not correct formula of simple interest .

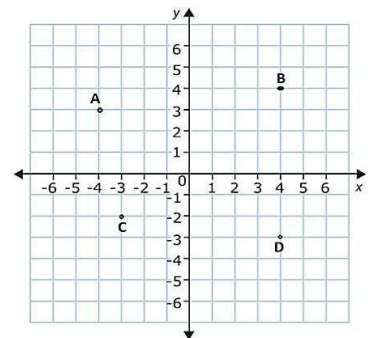


B) $P = \frac{100 \times I}{T \times R}$ B) $T = \frac{100 \times I}{P \times R}$ C) $I = \frac{100 \times P}{T \times R}$ D) $R = \frac{100 \times I}{P \times R}$

II Answer the following questions:

1x4=4

- 5) Write the co-ordinate point of A, B, C and D from this graph
- 6) State SSS postulate for congruency of triangle.
- 7) In a school of 800 students, 42 percent students are Girls find the number of Girls in the school.
- 8) Find the value of $10^0 + 2^3 + 1^5$

III Answer the following questions:

5x2=10

- 9) A person insures ₹26000/- through an insurance agent . If the agent gets ₹650/- as the commission. Find the rate of commission ?

OR

Soumya bought a bicycle for ₹3750 and spent ₹250 on its repairs. He sold it for ₹4400 . Find her Profit percentage or Loss percentage ?

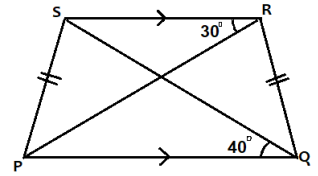
- 10) Vaishnavi brought a Musical instrument at Marked price ₹12,000 , GST(Tax) for this instrument is fixed 12% , How much she has to pay to purchase this instrument. ?

- 11) Draw the **histogram** for the following frequency distribution.

| Class-Interval | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 |
|----------------|------|-------|-------|-------|-------|
| Frequency | 6 | 8 | 12 | 4 | 10 |

12) A field is in the form of a parallelogram, whose perimeter is 450m and one of its sides is larger than the other by 75 m Find the lengths of all side.

13) In the figure, PQRS is an isosceles trapezium; $\angle SRP = 30^\circ$, AND $\angle PQS = 40^\circ$. Calculate the angle $\angle RPQ$ and $\angle RSQ$



OR

In a trapezium ABCD with $AB \parallel CD$, it is given that AD is not parallel to BC. Is $\triangle ABC \cong \triangle ADC$? Give reasons.

IV Answer the following questions:

3X3=9

14) Use the law of exponents and simplify.

$$\frac{3^{-4} \cdot 10^{-5} \cdot 125}{5^{-3} \cdot 6^{-4}}$$

OR

Simplify: $\left(\frac{b^{-3} b^7 (b^{-1})^2}{(-b)^2 (b^2)^3} \right)^2$

15) Construct a triangle $\triangle ABC$ whose perimeter is 14 cm, and whose sides are in Ratio **2 : 4 : 5.**

16) Draw a graph for the following linear equation.

$$y = 3x - 2$$

V Answer the following questions

4 x 2= 8

17) Calculate the **mean** for the following frequency distribution:

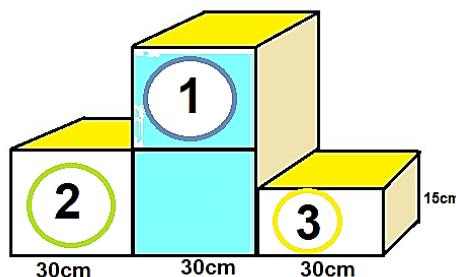
| C-I | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 |
|-----------|-----|-------|-------|-------|-------|-------|
| Frequency | 3 | 4 | 8 | 10 | 3 | 2 |

18) Prove that “In a triangle the angles opposite to equal sides are equal.”

VI Answer the following questions

5 x 1= 5

19) In this prize distribution podium 2nd place step is cubic in shape of 30 cm edges. First place step is joined such two cubic's. The third place step is a cuboidal shape of 30cm length 30cm breadth and 15cm height. Find the surface area to paint the color for this podium except the base of the podium.?



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