Date: 31-1-2024

SUT - 2024

Time: 1 hour Marks: 20

Std: IX

Sub: MATHS - I

- Q.1) Solve any four subquestions of the following: 4
- Convert the ratio 5:8 into percentage.
- If 3x 4y = 5 and 4x 3y = 2 then find the value of
- If 7:2 = y: 14 then what will be the value of y?
- 5' form the equation by using variable x and y. 'The difference between the ages of Alka and Dilip is
- 5) What is the ratio of 1mm to 1cm?
- 9 x - y = 8 and 2x + y = 19 then find the value of 3x.

Q.2)Solve any three subquestions of the following: 9

- altogether then find the total value of a simcard and earphone and price of 4 earphones and 5 simcards is ₹ 1200 The price of 4 simcards and 5 earphones is ₹ 1050
- of variables: Solve the following equations by equating coefficients

$$x - 2y = -10$$
, $3x - 5y = -12$

- Find the value of 'x' if $\frac{x}{2} + \frac{y}{3} = 6$ and $\frac{x}{2} \frac{y}{7} = 1$
- 4) If $\frac{a}{b} = \frac{7}{3}$ then find the ratio $\frac{a^3 b^3}{b^3}$
- 5 Compare the following pair of ratio: 3/5
- in the reduced form. Write the ratio of the first quantity to second quantity
- 5 litre, 2500mℓ.

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Solve any two subquestions of the following:

5x+3y $\frac{21}{17}$ then find the value of the ratio $\frac{x}{y}$.

Dipesh is 2 years elder than Pradnya. Find today's Sum of today's ages of Pradnya and Dipesh is 58.

age of Pradnya.

subtitution method: Solve the following simultaneous equations by

$$x+y=4$$
; $2x-5y=1$

Solve any one subquestion of the following:

E

by 10 than number of ₹ 10 notes. Then find the together is 350 rupees. Number of ₹5 notes are less some 10 rupee notes. Total amount of these notes number of ₹ 5 and ₹10 notes. In an envelope there are some 5 rupee notes and

2) instructions. Write the equations in the box according to given

Using Invertendo XIX 11 Dividendo 517 Using componendo-Using dividendo Using Componendo