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CBSE 10th Linear Equations in Two Variable Unsolved Paper

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CBSE 10th Linear Equations in Two Variable Unsolved Paper

Question 1:

A lending library has a fixed charge for the first three days and an additional charge for each day thereafter. Saritha paid Rs 27 for a book kept for seven days, while Susy paid Rs 21 for the book she kept for five days. Find the fixed charge and the charge for each extra day.

Question 2:

One Says, "Give me a hundred, friend! I shall then become twice as rich as you." The other replies, "If you give me ten, I shall be six times as rich as you." Tell me what is the amount of their respective capital?

Question3:

5 pens and 6 pencils together cost Rs 9 and 3 pens and 2 pencils cost Rs. 5. Find the cost of 1 pen and 1 pencil.

Question 4:

7 audio cassettes and 3 video cassettes cost Rs 1110, while 5 audio cassettes and 4 video cassettes cost Rs 1350. Find the cost of an audio cassette and a video cassette.

Question 5:

Reena has pens and pencils which together are 40 in number. If she has 5 more pencils and 5 less pens, then number of pencils would become 4 times the number of pens. Find the original number of pens and pencils.

Question 6:

4 tables and 3 chairs, together, cost Rs 2,250 and 3 tables and 4 chairs cost Rs 1950. Find the cost of 2 chairs and 1 table.

Question 7:

bags and 4 pens together cost Rs 257 whereas 4 bags and 3 pens together cost Rs 324.

Find the total cost of 1 bag and 10 pens.

Question 8:

5 books and 7 pens together cost Rs 79 whereas 7 books and 5 pens together cost Rs 77.

Find the total cost of 1 book and 2 pens.

Question 9:

A and B each have a certain number of mangoes. A says to B, “if you give 30 of your mangoes, I will have twice as many as left with you.” B replies, “If you give me 10, I will have thrice as many as left with you.” How many mangoes does each have?

Question 10:

The coach of a cricket team buys 7 bats and 6 balls for Rs 3800. Later he buys 3 bats and 5 balls for Rs 1750. Find the cost of each bat and each ball.

Question 11:

$$11x + 15y + 23 = 0$$

$$7x - 2y - 20 = 0$$

Question 12:

$$3x - 7y + 10 = 0$$

$$y - 2x - 3 = 0$$

Question 13:

$$0.4x + 0.3y = 1.7$$

$$0.7x + 0.2y = 0.8$$

Question 14:

$$\frac{x}{2} + y = 0.8$$

$$\text{And } \frac{7}{x+\frac{1}{2}} = 10$$

Ques15

$$7(y + 3) - 2(x + 3) = 14$$

$$4(y - 2) + 3(x - 3) = 2$$

Question: 16:

$$\frac{x}{7} + \frac{y}{3} = 5$$

$$\frac{x}{2} - \frac{y}{9} = 6$$

Ques.17:

$$\frac{x}{3} + \frac{y}{4} = 11$$

$$\frac{5x}{6} - \frac{y}{3} = 7$$

Question:18

$$4u + 3y = 8$$

$$6u - 4y = -5$$

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Question.19:

$$x + \frac{y}{2} = 4$$

$$\frac{x}{3} + 2y = 5$$

Question.20:

$$x + 2y = \frac{3}{2}$$

$$2x + y = \frac{3}{2}$$

Question.21:

$$\sqrt{2}x + \sqrt{3}y = 0$$

$$\sqrt{3}x - \sqrt{8}y = 0$$

Question:22

$$3x - \frac{y+7}{11} + 2 = 10$$

$$2y + \frac{x+11}{7} = 10$$

Question: 23

$$2x - \frac{3}{y} = 9$$

$$3x + \frac{7}{y} = 2, y \neq 0$$

Question: 24

$$0.5x + 0.7y = 0.74$$

$$0.3x + 0.5y = 0.5$$

Question:25

$$\frac{1}{7x} + \frac{1}{6y} = 3$$

$$\frac{1}{2x} - \frac{1}{3y} = 5$$

Question26:

$$\frac{1}{2x} + \frac{1}{3y} = 2.$$

$$\frac{1}{3x} + \frac{1}{2y} = \frac{13}{6}$$

Question: 27

$$\frac{x+y}{xy} = 2$$

$$\frac{x-y}{xy} = 6$$

Question:28:

$$\frac{3}{x} - \frac{1}{y} = -9$$

$$\frac{2}{x} + \frac{3}{y} = 5$$

Question29:

$$\frac{2}{x} + \frac{5}{y} = 1$$

$$\frac{60}{x} + \frac{40}{y} = 19, x \neq 0, y \neq 0$$

Question 30:

$$\frac{1}{5x} + \frac{1}{6y} = 12$$

$$\frac{1}{3x} - \frac{3}{7y} = 8, x \neq 0, y \neq 0$$

Question 31:

Solve the following pair of linear equations by the substitution method.

(i) $x + y = 14$
 $x - y = 4$

(ii) $s - t = 3$
 $\frac{s}{3} + \frac{t}{2} = 6$

(iii) $3x - y = 3$
 $9x - 3y = 9$

(iv) $0.2x - 0.3y = 1.3$
 $0.4x - 0.5y = 2.3$

(v) $\sqrt{2}x + \sqrt{3}y = 0$
 $\sqrt{3}x - \sqrt{8}y = 0$

(vi) $\frac{3x}{2} - \frac{5y}{3} = -2$
 $\frac{x}{3} + \frac{y}{2} = \frac{13}{6}$

Question 32:

Form the pair of linear equations for the following problems and find their solution by substitution method.

- (i) The difference between two numbers is 26 and one number is three times the other. Find them.
- (ii) The larger of two supplementary angles exceeds the smaller by 18 degrees, Find them.
- (iii) The coach of a cricket team buys 7 bats and 5 balls for Rs 3800. Later, she buys 3 bats and 5 balls for Rs 1750. Find the cost of each bat and each ball.
- (iv) The taxi charges in a city consist of a fixed charge together with the charge for the distance covered. For a distance of 10km, the charge paid is Rs 105 and for a journey of 15km, the charge paid is Rs 155. What are the fixed charges and the charge per km? How much does a person have to pay for travelling a distance of 25 km.
- (v) A fraction becomes $\frac{9}{11}$, if 2 is added to both the numerator and the denominator. If, 3 is added to both the numerator and the denominator it becomes $\frac{5}{6}$. Find the fraction.
- (vi) Five years hence, the age of Jacob will be three times that of his son. Five years ago, Jacob's age was seven times that of his son. What are their present ages?

Question 33:

Which of the following pairs of linear equations has unique solution, no solution or infinitely many solutions? In case there is a unique solution, find it by using cross multiplication method.

- (i)
$$\begin{aligned} x - 3y - 3 &= 0 \\ 3x - 9y - 2 &= 0 \end{aligned}$$
- (ii)
$$\begin{aligned} 2x + y &= 5 \\ 3x + 2y &= 8 \end{aligned}$$
- (iii)
$$\begin{aligned} 3x - 5y &= 20 \\ 6x - 10y &= 40 \end{aligned}$$
- (iv)
$$\begin{aligned} x - 3y - 7 &= 0 \\ 3x - 3y - 15 &= 0 \end{aligned}$$

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