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Linear Equations In Two Variables Worksheets

Solve the following systems of equations in questions 1-5:

1) $2x + 3y = 10$

$3x + 4y = 18$

2) $x + y = 6$

$-x + y = 18$

3) $5x + 2y = 37$

$3x - 2y = 51$

4) $3x - y = 29$

$-2x + 5y = -2$

5) $-2x - 17y = 11$

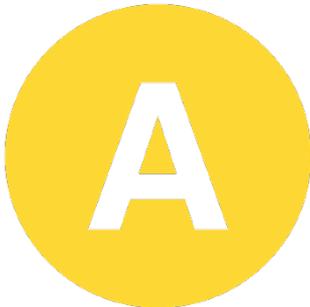
$4x - 13y = 25$

6) Find the sum of x and y for the following system::

$$6x + 5y = 7x + 3y + 1 = 2(x + 6y - 1)$$

7) If Ayesha gives ₹30 to Bob, then Bob will have twice the money left with Ayesha. But, if Bob gives ₹10 to Ayesha, then Ayesha will have thrice as much as is left with Bob. How much money does Bob have initially?

8) Five years ago, A was thrice as old as B and ten years later, A shall be twice as old as B. Fill in the blank below:

 $+$  $=$ _____

9) A part of the monthly expenses of a family is constant and the remaining varies with the price of wheat. When the price of wheat is ₹250 per quintal, the total monthly expenses are ₹1000, and when it is ₹240 per quintal, the total monthly expenses ₹980 per quintal. Then, the total monthly expenses of the family when the cost of wheat is ₹350 per quintal will be _____

10) Find the solution to the following system of equations:

$$ax + by - a + b = 0$$

$$bx - ay - a - b = 0$$

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ANSWERS

1)	$x=14, y=-6$
2)	$x=12$ $y=-6$
3)	$x=11$ $y=-9$
4)	$x=11$ $y=4$
5)	$x=3$ $y=-1$
6)	5
7)	34
8)	70
9)	1200
10)	$x=1$ $y=1$

FUN FACT

- 1) Most fields of mathematics and applied mathematics often used linear equations.
- 2) Sir William Rowan Hamilton was the inventor of linear equations in 1843. He was an Irish mathematician. He passed away in 1865.
- 3) Linear equation has a closer relationship with linear algebra. The latter one highlights the linear equation and relationship of variables.

