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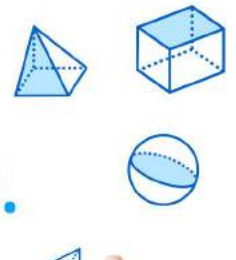

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Linear Equations In Two Variables Worksheets

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

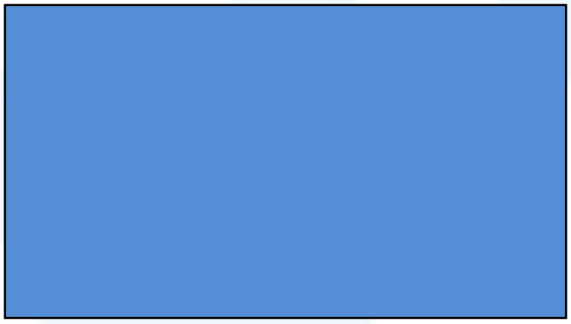
1) $3x + y = 15$
   $x + 2y = 10$
2) $x + y = 2/3$
   $x - y = 1/3$
3) $2x - 3y = 15$
   $3x + 3y = 40$
4) $4x + 2y = 16$
   $5x - 2y = 38$
5) $-8x - 4y = -64$
   $6x + 2y = 33$

6) Find the sum of x and y in the following system:
   $10x + 3y = 75, 6x - 5y - 11 = 0$

7) Students in a school are made to stand in a row-and-column formation. On an average day, the number of rows and the number of columns is fixed. On one particular day, the row size was increased by 4, which led to the number of rows decreasing by 2. On another day, the row size was decreased by 4, which led to the number of rows increasing by 4. How many students are there in the school? _____

8) The sum of the digits of a two-digit number is 12. The number obtained by interchanging its digits exceeds the given number by 18. Then, the number is _____

9) The area of a rectangle gets reduced by 9 square units, if its length is reduced by 5 units and breadth is increased by 3 units. If we increase the length by 3 units and the breadth by 2 units, the area increases by 67 square units. The original area of the rectangle is _____ sq. units.



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

$2(ax - by) + (a + 4b) = 0$

$2(bx + ay) + (b - 4a) = 0$

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- Barbara Cabrera

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ANSWERS

1)	x = 4 y = 3
2)	x = 1 / 2 y = 1 / 6
3)	x = 11 y = 7 / 3
4)	x = 6 y = -4
5)	x = 0.5 y = 15
6)	11
7)	96
8)	57
9)	153
10)	x = -1 / 2 y = 2

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.