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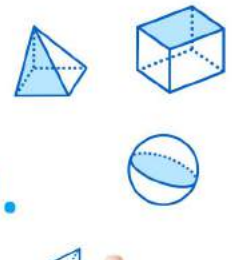

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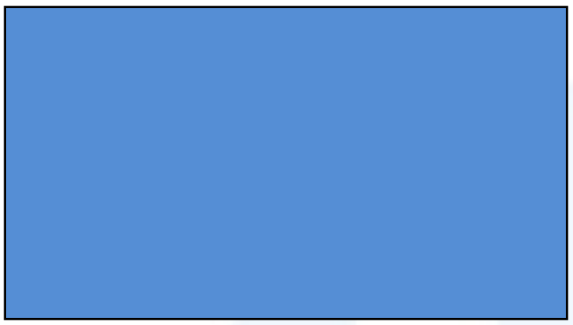
Systems of Equations Worksheets

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

1. $x + 2y = 12$
   $3x + 4y = 4$
2. $x + y = 10$
   $x - y = 20$
3. $2x + y = 15$
   $x - y = 45$
4. $2x + y = 10$
   $3x - 2y = 15$
5. $0.5x + 2y = 27$
   $x - \frac{1}{3}y = 10$
6. Find x-y for the following system:
   $0.4x - 1.5y = 6.5$
   $0.3x + 0.2y = 0.9$
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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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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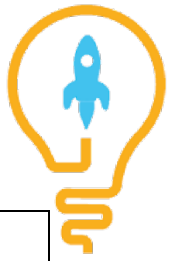
ANSWERS



1.	x=-20, y=16
2.	x=15 y=-5
3.	x=20 y=25
4.	x=5 y=0
5.	x=6 y=12
6.	8
7.	96
8.	57
9.	153
10.	x=-1/2 y=2