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## Linear Equations In Two Variables Worksheets

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

1)  $x + y = 10$

$$x - y = 8$$

2)  $x + y = 7.2$

$$-x + y = 4.8$$

3)  $3x + 6 = 6$

$$x + y = 1$$

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:

$$0.4x - 1.5y = 6.5$$

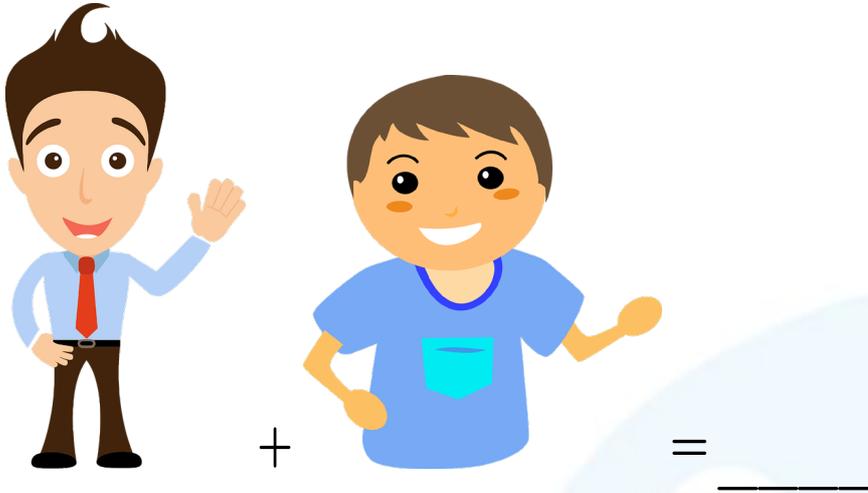
$$0.3x + 0.2y = 0.9$$

7) Use elimination to calculate the value of  $x$ :

$$4x + 2y - z = 7$$

$$8x - 2y + z = 17$$

8) Four years ago, the age of Andrew was thrice that of his son. Eight years later, the age of Andrew will be twice of his son. Fill in the blank below:



9) The sum of a two-digit number and the number obtained by reversing the order of its digit is 165. If the digits differ by 3, then the smallest possible such number is \_\_\_\_\_

10) Let  $x, y$  be the solution to the following system of equations:

$$\frac{x}{a} + \frac{y}{b} = 2$$

$$ax - by = a^2 - b^2$$

Find the value of  $x^2 + y^2$

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- 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)	$x=9$ $y=1$
2)	$x=6$ $y=1.2$
3)	$x=2.5$ $y=1.5$
4)	$x=5$ $y=0$
5)	$x=6$ $y=12$
6)	8
7)	2
8)	56
9)	69
10)	$a^2 + b^2$

## 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.

