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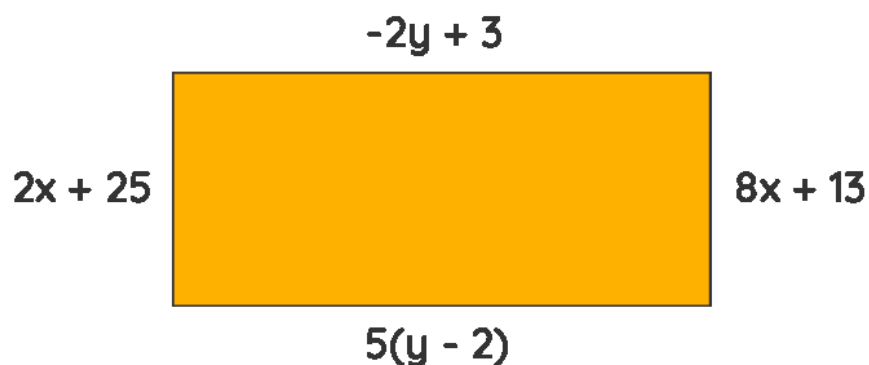
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Solving for a Variable Worksheet-3

- 1) Solve for x : $7x - 11 = 2(3x + 5)$
- 2) Solve the following equation for y .
 $-3(7y - 12) = 4(5y - 7)$
- 3) Mia's father is 70 years old. He is 10 years older than 2 times Mia's age. Then how old is Mia?



- 4) What value of z satisfies the equation $-8z - 7 = -55$?
- 5) Two numbers are in the ratio 6:13. Their difference (bigger number minus smaller number) is 28. Find the numbers.
- 6) Find the values of x and y if the given figure is a rectangle.



7) One-third of a number is 30. What will be 30% of that number?

- (a) 12 (b) 18 (c) 27 (d) 35

8) 15 years ago, the age of Daniel's mother was 3 times the age of Daniel. If his mother is 60 years old now, how old is Daniel now?

9) The difference between two numbers is 14, and the ratio of the numbers is 5 : 7. Find the two numbers

10) Solve the given equation for x:

$$x + 7 - 8x - 15 + 3x + 11 = 3$$

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in an interesting way,
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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."

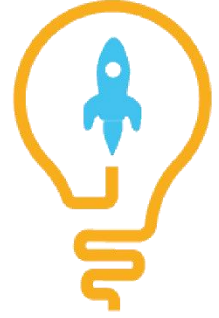
- Kirk Riley

"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)	21
2)	$x = 8/41$
3)	30 years
4)	6
5)	24 and 52
6)	$x = 2$ and $y = \frac{13}{7}$
7)	c) 27
8)	30 years
9)	35 and 49
10)	$X = 0$

FUN FACT

1. The opposite of a variable is a constant or a known value.
2. Equations may contain one or more variables.
3. To solve an equation with a single variable, we just apply the opposite operations on both sides of the given equation to isolate the variable.

