



## Algebra: Equation Problems - Practice

### Question 1:

Find out if the following expressions are equations:

No.	Expression	Answer
1	$5 + 6 = 11$	
2	$2 + 3 = 6$	
3	$x + y = z$	
4	$25 + x < 9$	
5	$5x + y = 33 - z$	

### Question 2:

Find out the value of 'x' from the equations:

1)  $x + 6 = 11$

2)  $x + 2 = 27$

3)  $x + 6 = 75$

4)  $x - 4 = 11$

5)  $x - 62 = 10 - x$

6)  $x + \frac{5}{7} = 12$

7)  $0.35 + x = 1.25$

8)  $0.25 + x = 3.12$

9)  $x + 6 = 25 - x$

10)  $20 + x = 12.5 + x$



**Question 3:**

Find out the value of 'x' from the equations:

1)  $2x + 6 = 11x$

2)  $5x - 2 = 27 + \frac{x}{6}$

3)  $x + 6 = 12x - 3$

4)  $9x - 4 + 6x = 11$

5)  $5x - 88 = 10x + x$

6)  $\frac{x}{5} + 7 = 15$

7)  $0.35x - 1.2 = 2.25$

8)  $0.75x + 0.8x = 2.5$

9)  $5x + 6 - 9x = 25$

10)  $20 + x = 12.5x - 0.25x$

**Question 4:**

Alex is twice as old as her younger brother Jake. Together their ages total 18. How old is Jake?

**Question 5:**

Josh has a store where he sells stationery. He has bought \$5000 worth of pens to be sold at the store during the month. He is charging \$3.00 for one pen. How many pens he would need to sell in order to make \$1000 profits?