

## Solving Equations - Question Bank

Solve the following equations:

1.  $x + 7 = 12$

2.  $2x + 5 = 17$

3.  $4a - 3 = 1$

4.  $3y - 2 = 13$

5.  $4 + 2x = 7$

6.  $8 + 5y = 33$

7.  $10 - 2x = 6$

8.  $21 - 3y = 9$

9.  $13 - 5a = 18$

10.  $x/4 + 5 = 25$

11.  $2x/3 - 9 = 1$

12.  $6a/2 - 4 = 5$

The following equations include brackets. Expand the the brackets first and then solve the equation as you have above.

13.  $3(b + 5) = 24$

14.  $5(2x + 6) = 60$

15.  $9(2a - 1) = 36$

16.  $2(6y - 2) = 92$

17.  $7(x + 3) = 91$

The next set of equations have unknowns on both sides of the equals sign (=). The first step is to bring the unknown letters onto the same side of the equals sign. Then the equation will look much easier and you can solve as you have with the questions above.

18.  $2x + 5 = x + 8$

19.  $4x - 3 = 2x + 7$

20.  $y + 4 = 3y - 6$

21.  $2a + 12 = 5y - 21$

22.  $2(x + 9) = 3x - 2$

23.  $5(x - 2) = 2(x + 1)$