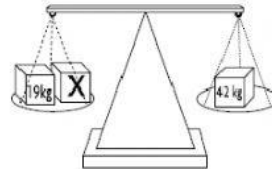## Solve Addition Equations

An equation tells you that two quantities are equal. You can think of an equation as a balance scale where the values on each side of the scale balance each other.
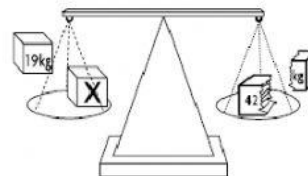
You can write an algebraic equation for a word sentence by reading the sentence as though it were an equation.

$$x + 19 = 42$$

When x is alone on one side of the scale, and the scale balances, the value on the other side is the solution of the equation. So, you want to get x alone on one side of the scale.

$$x + 19 = 42$$
$$- 19 - 19$$
$$x = 23$$

So, the solution to the equation $x + 19 = 42$ is $x = 23$. You can check the solution by replacing the variable in the equation with the value of x.

$$x + 19 = 42$$
$$23 + 19 = 42$$
$$42 = 42$$

Solve and check.

1. $d + 17 = 22$

2. $w + 6 = 19$

3. $18 + y = 32$

4. $46 = t + 27$

5. $x + 3.6 = 10.1$

6. $17.2 = a + 9.7$

7. $p + 63 = 91$

8. $8\frac{1}{2} + k = 15$

9. $18 = h + 6\frac{1}{3}$

10. $5.3 + m = 10.0$

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11. $75.3 = 32.4 + b$

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12. $9\frac{1}{4} = a + 3\frac{1}{3}$

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