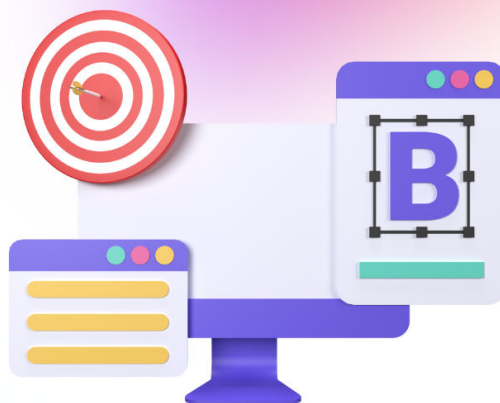# ALGEBRAIC EQUATIONS

Algebraic equations use letters from the alphabet to denote numbers without actually putting a value to them. We learn how to express an unknown value using letters like x, y, and z in the fundamentals of algebra. These letters are known as variables, as they get assigned different values depending on the equation. You will learn more about this as you keep reading.

Read more

## Q1: Solve for x: 2x + 5 = 17

A: x = 6
B: x = 7
C: x = 8
D: x = 9

## Q2: Simplify: 3(x - 4) + 2x

A: 5x - 12
B: 5x - 6
C: 5x - 8
D: 5x - 10

## Q3: If 2(y + 3) = 14, what is the value of y?

A: y = 4
B: y = 5
C: y = 6
D: y = 7

## Q4: Solve for z: 4z - 8 = 20

A: z = 3
B: z = 4
C: z = 5
D: z = 6

## Q5: Simplify: 2(3x - 7) + 5(2x + 1)

A: 16x - 9
B: 16x - 11
C: 16x - 13
D: 16x - 15

## Q6: If 3(a - 2) = 15, what is the value of a?

A: a = 4
B: a = 5
C: a = 6
D: a = 7

## Q7: Solve for y: 6y + 9 = 33

A: y = 4
B: y = 5
C: y = 6
D: y = 7

## Q8: If 5(b + 2) = 25, what is the value of b?

A: b = 3
B: b = 4
C: b = 5
D: b = 6

## Q9: Simplify: 4(x - 3) - 2(2x + 5)

A: -4x - 14
B: -6x - 6
C: -4x - 10
D: -6x - 8

## Q10: If 2(c - 5) = -16, what is the value of c?

A: c = -3
B: c = -4
C: c = -5
D: c = -6

## Answers

**Q1:** B - x = 7

**Q2:** A - 5x - 12

**Q3:** A - y = 4

**Q4:** C - z = 5

**Q5:** A - 16x - 9

**Q6:** B - a = 5

**Q7:** C - y = 6

**Q8:** B - b = 4

**Q9:** A - -4x - 14

**Q10:** D - c = -6