

# Pre-Algebra Mastery Challenge

Pre-Algebra · Practice Test · 8 Questions

---

**1. What is the value of the expression  $5(x + 3) - 2x$  when  $x = 4$ ?**

- A) 19
- B) 29
- C) 33
- D) 23

**2. Which of the following is an irrational number?**

- A)  $\sqrt{16}$
- B)  $\frac{3}{4}$
- C)  $\pi$
- D) 7.5

**3. What is the least common multiple (LCM) of 6 and 8?**

- A) 2
- B) 14
- C) 48
- D) 24

**4. If  $3y - 7 = 14$ , what is the value of  $y$ ?**

- A) 21
- B) 7
- C) 3
- D) 10.33

**5. What is the area of a rectangle with a length of 12 cm and a width of 5 cm?**

- A) 60 sq cm
- B) 34 cm
- C) 17 cm
- D) 24 sq cm

**6. Which operation is performed last when evaluating the expression  $10 + (5 * 2^3)$ ?**

- A) Exponentiation
- B) Addition
- C) Multiplication
- D) Parentheses

**7. What is the slope of the line represented by the equation  $y = -2x + 5$ ?**

- A) 5
- B) -2
- C) 2
- D) -5

**8. What is the prime factorization of 36?**

- A)  $2 \times 18$
- B)  $6 \times 6$
- C)  $2 \times 2 \times 3 \times 3$
- D)  $4 \times 9$