

Pre-Algebra Mastery Challenge

Pre-Algebra · Answer Key · 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) π**
- 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) 2×18

B) 6×6

C) $2 \times 2 \times 3 \times 3$

D) 4×9