

# Pre Algebra Worksheet Answer Key PDF

Pre Algebra Worksheet Answer Key PDF

Disclaimer: The pre algebra worksheet answer key pdf was generated with the help of StudyBlaze Al. Please be aware that Al can make mistakes. Please consult your teacher if you're unsure about your solution or think there might have been a mistake. Or reach out directly to the StudyBlaze team at max@studyblaze.io.

### Part 1: Building a Foundation

#### What is the result of 7 + 5?

undefined. 10 undefined. 11 undefined. 12 ✓ undefined. 13

The correct answer is 12.

## Which of the following are prime numbers?

undefined. 2 ✓ undefined. 4 undefined. 5 ✓ undefined. 9

The prime numbers from the options are 2 and 5.

## Explain the difference between a factor and a multiple.

A factor is a number that divides another number without a remainder, while a multiple is the result of multiplying a number by an integer.

#### List the first three multiples of 6.

1. First multiple of 6

6

2. Second multiple of 6



12

3. Third multiple of 6

18

The first three multiples of 6 are 6, 12, and 18.

#### What is the value of 3^2?

undefined. 6

undefined, 9 √

undefined. 12

undefined. 15

The correct answer is 9.

## Part 2: Understanding and Interpretation

### Which property of addition is demonstrated by the equation 4 + 5 = 5 + 4?

undefined. Associative Property

undefined. Communtative Property ✓

undefined. Distributative Property

undefined. Identity Property

This demonstrates the Commutative Property.

## Which of the following expressions are equivalent to 3/4?

undefined. 6/8 ✓

undefined. 9/12 ✓

undefined. 12/16 ✓

undefined. 15/20

The equivalent expressions are 6/8, 9/12, and 12/16.

### Describe how to convert a fraction to a decimal.



To convert a fraction to a decimal, divide the numerator by the denominator.

### Part 3: Application and Analysis

#### If a rectangle has a length of 8 units and a width of 3 units, what is its area?

undefined. 11 square units

undefined. 24 square units ✓

undefined. 26 square units undefined. 30 square units

The area is 24 square units.

### Which of the following are solutions to the equation x + 3 = 7?

undefined. 3

undefined, 4 √

undefined. 5

undefined. 6

The solution is 4.

### Solve the equation 2x - 5 = 9 and explain your steps.

The solution is x = 7, found by adding 5 to both sides and then dividing by 2.

### Which of the following graphs represents a linear relationship?

#### undefined. A graph with a straight line ✓

undefined. A graph with a curved line

undefined. A graph with a zigzag line

undefined. A graph with a dotted line

The graph with a straight line represents a linear relationship.

#### Which of the following statements are true about the number line?



undefined. Negative numbers are to the left of zero. ✓ undefined. Positive numbers are to the right of zero. ✓ undefined. Zero is neither positive nor negative. ✓

undefined. The number line is finite.

The true statements are A, B, and C.

#### Analyze the expression 3(x + 4) - 2x and simplify it.

The simplified expression is x + 12.

#### Part 4: Evaluation and Creation

### Which of the following statements best evaluates the expression 2(x - 3) + 4 = 10?

undefined. The solution is x = 4.

undefined. The solution is x = 5.

undefined. The solution is x = 6.

undefined. The solution is x = 7.

The solution is x = 5.

### Which of the following are valid methods to solve the equation $x^2 = 16$ ?

undefined. Factoring ✓

undefined. Taking the square root ✓

undefined. Completing the square ✓

undefined. Graphin

The valid methods are factoring, taking the square root, and completing the square.

## Create a real-world problem that can be solved using a linear equation, and provide the solution.

An example could be calculating the cost of items at a fixed price.

Propose two different methods to solve the equation x + 5 = 12 and explain each method briefly.



Your AI Tutor for interactive quiz, worksheet and flashcard creation.

#### 1. Method 1

Subtract 5 from both sides.

#### 2 Method 2

Use a number line to visualize the solution.

One method is to subtract 5 from both sides, and another is to use a number line.