Pre Algebra Worksheet

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Part 1: Building a Foundation

What is the result of 7 + 5?

Hint: Think about basic addition.

○ 10
○ 11
○ 12
○ 13

Which of the following are prime numbers?

Hint: Recall the definition of prime numbers.

☐ 2
☐ 4
☐ 5
☐ 9

Explain the difference between a factor and a multiple.

Hint: Consider how each term relates to numbers.

List the first three multiples of 6.

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Hint: Think about multiplying 6 by the first three whole numbers.

1. First multiple of 6

[   ]

2. Second multiple of 6

[   ]

3. Third multiple of 6

[   ]

What is the value of 3^2?

Hint: Remember that exponentiation means multiplying the base by itself.

○ 6
○ 9
○ 12
○ 15

Part 2: Understanding and Interpretation

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

Hint: Think about how the order of numbers affects the sum.

○ Associative Property
○ Communtative Property
○ Distributative Property
○ Identity Property

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

Hint: Consider how fractions can be simplified or scaled.

☐ 6/8
☐ 9/12
☐ 12/16
☐ 15/20

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Describe how to convert a fraction to a decimal.

Hint: Think about division.

Part 3: Application and Analysis

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

Hint: Use the formula for the area of a rectangle.

○ 11 square units
○ 24 square units
○ 26 square units
○ 30 square units

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

Hint: Think about what value of x makes the equation true.

☐ 3
☐ 4
☐ 5
☐ 6

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

Hint: Isolate x on one side of the equation.

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[textarea]

Which of the following graphs represents a linear relationship?

Hint: Consider the shape of the graph.

○ A graph with a straight line
○ A graph with a curved line
○ A graph with a zigzag line
○ A graph with a dotted line

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

Hint: Think about the arrangement of numbers on the line.

☐ Negative numbers are to the left of zero.
☐ Positive numbers are to the right of zero.
☐ Zero is neither positive nor negative.
☐ The number line is finite.

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

Hint: Distribute and combine like terms.

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Part 4: Evaluation and Creation

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

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Hint: Solve for x to find the correct statement.

◯ The solution is x = 4.
◯ The solution is x = 5.
◯ The solution is x = 6.
◯ The solution is x = 7.

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

Hint: Consider different algebraic techniques.

☐ Factoring
☐ Taking the square root
☐ Completing the square
☐ Graphin

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

Hint: Think about a scenario involving a constant rate.

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

Hint: Consider both algebraic and graphical methods.

1. Method 1

2. Method 2

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