

## Math Vocabulary Worksheets

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### Part 1: Building a Foundation

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**What is the term for a number that is divisible by 2 without a remainder?**

*Hint: Think about the characteristics of numbers.*

- Odd Number
- Prime Number
- Even Number
- Composite Number

**Select all the properties that define a prime number.**

*Hint: Consider the definition of prime numbers.*

- Greater than 1
- Divisible only by 1 and itself
- Has more than two divisors
- Can be even

**Explain the difference between a numerator and a denominator in a fraction.**

*Hint: Think about the parts of a fraction.*

**List two examples of quadrilaterals.**

*Hint: Think about shapes with four sides.*

1. Example 1

2. Example 2

**Which of the following is an improper fraction?**

*Hint: Consider the relationship between the numerator and denominator.*

- 3/4
- 5/3
- 1/2
- 2/5

## Part 2: Comprehension and Application

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**Which shape has all points equidistant from its center?**

*Hint: Think about the definition of a circle.*

- Square
- Triangle
- Circle
- Rectangle

**Identify the correct statements about polygons.**

*Hint: Consider the characteristics of polygons.*

- They have straight sides.
- They are always three-sided.
- They can be open figures.
- They are closed figures.

**Describe how the mean of a data set is calculated.**

*Hint: Think about the steps involved in finding the mean.*

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

*Hint: Use the formula for the perimeter of a rectangle.*

- 11 units
- 22 units
- 24 units
- 16 units

**A mixed number is composed of which of the following?**

*Hint: Think about the components of a mixed number.*

- An integer
- A decimal
- A proper fraction
- An improper fraction

**Convert the improper fraction  $\frac{9}{4}$  into a mixed number.**

*Hint: Think about how many whole numbers fit into the fraction.*

### Part 3: Analysis, Evaluation, and Creation

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**Which property distinguishes a composite number from a prime number?**

*Hint: Consider the definitions of both types of numbers.*

- It is odd.
- It has more than two divisors.
- It is even.
- It is greater than 1.

**Analyze the following expressions and identify which are equivalent to  $3x + 6$ .**

*Hint: Consider the properties of algebraic expressions.*

- $3(x + 2)$
- $6 + 3x$
- $x + 6$
- $3x + 3 + 3$

**Explain how you would determine the area of a triangle given its base and height.**

*Hint: Think about the formula for the area of a triangle.*

**Which of the following scenarios best demonstrates the use of a variable in an equation?**

*Hint: Consider how variables are used in mathematical expressions.*

- Calculating the total cost of items in a shopping cart.
- Solving for  $x$  in the equation  $2x + 3 = 11$ .
- Counting the number of apples in a basket.
- Measuring the length of a table.

**Evaluate the following statements and select those that correctly describe the properties of a circle.**

*Hint: Think about the characteristics of circles.*

- It has a diameter twice the radius.
- Its circumference is  $\pi$  times the diameter.
- It has four equal sides.

All points on the circle are equidistant from the center.

**Create a real-world problem that involves finding the volume of a rectangular prism, and solve it.**

*Hint: Think about the formula for volume.*

**Propose two different methods to solve the equation  $4x - 7 = 9$  and explain your reasoning.**

*Hint: Consider different algebraic techniques.*

1. Method 1

2. Method 2