

# Math Vocabulary Worksheets Questions and Answers PDF

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# Part 1: Building a Foundation

#### 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
- The correct answer is 'Even Number'.

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

Hint: Consider the definition of prime numbers.

Greater than 1 ✓

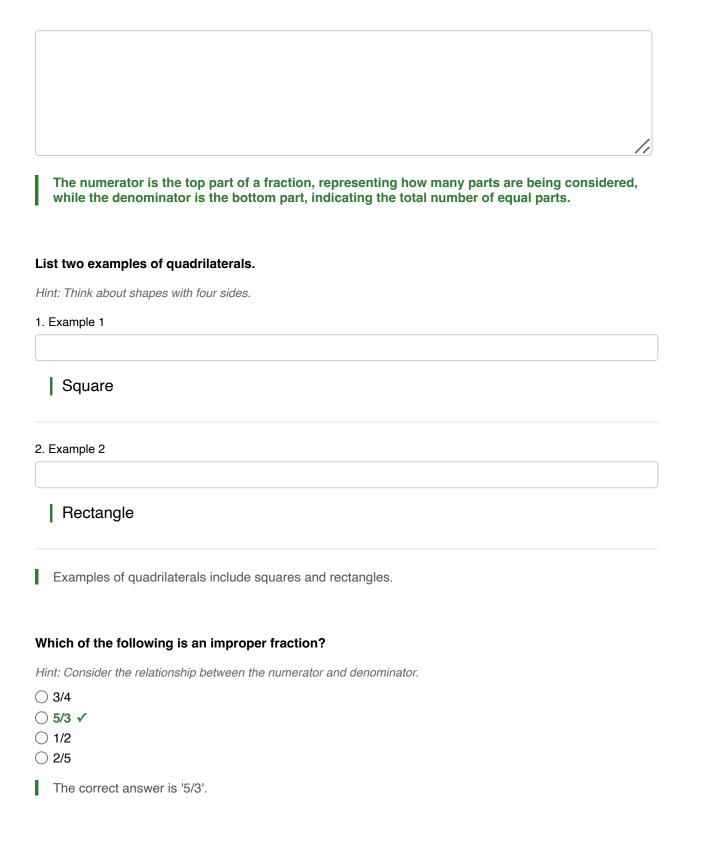
 $\Box$  Divisible only by 1 and itself  $\checkmark$ 

- Has more than two divisors
- 🗌 Can be even
- The correct answers are 'Greater than 1' and 'Divisible only by 1 and itself'.

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

Hint: Think about the parts of a fraction.







# Part 2: Comprehension and Application

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

Hint: Think about the definition of a circle.

- ◯ Square
- Triangle
- Circle ✓
- Rectangle
- The correct answer is 'Circle'.

#### Identify the correct statements about polygons.

Hint: Consider the characteristics of polygons.

 $\hfill\square$  They have straight sides.  $\checkmark$ 

- ☐ They are always three-sided.
- $\Box$  They can be open figures.
- $\Box$  They are closed figures.  $\checkmark$
- The correct answers are 'They have straight sides.' and 'They are closed figures.'

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

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

To calculate the mean, sum all the values in the data set and then divide by the number of values.

#### 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



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○ 22	units	$\checkmark$
○ 24	units	
0 16	units	

The correct answer is '22 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
The correct answers are 'An integer' and 'A proper fraction'.

#### Convert the improper fraction 9/4 into a mixed number.

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

The mixed number is 2 1/4.

## Part 3: Analysis, Evaluation, and Creation

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

Hint: Consider the definitions of both types of numbers.

- $\bigcirc$  It is odd.
- $\bigcirc$  It has more than two divisors.  $\checkmark$
- $\bigcirc$  It is even.
- O It is greater than 1.



The correct answer is 'It has more than two divisors.'

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

Hint: Consider the properties of algebraic expressions.

 $\begin{array}{c|c} 3(x+2) \checkmark \\ \hline 6+3x \checkmark \\ \hline x+6 \\ \hline 3x+3+3 \end{array}$ 

The correct answers are (3(x + 2))' and (6 + 3x)'.

#### 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.

The area of a triangle is calculated using the formula: Area = 1/2 \* base \* height.

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

Hint: Consider how variables are used in mathematical expressions.

- O Calculating the total cost of items in a shopping cart.
- Solving for x in the equation 2x + 3 = 11. ✓
- O Counting the number of apples in a basket.
- $\bigcirc$  Measuring the length of a table.
- The correct answer is 'Solving for x in the equation 2x + 3 = 11.'

#### 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. ✓



 $\Box$  Its circumference is  $\pi$  times the diameter.  $\checkmark$ 

☐ It has four equal sides.

 $\Box$  All points on the circle are equidistant from the center.  $\checkmark$ 

The correct answers are 'It has a diameter twice the radius.', 'Its circumference is  $\pi$  times the diameter.', and '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.

A possible problem could be: 'A box has a length of 5 units, a width of 3 units, and a height of 4 units. The volume is calculated as 5 \* 3 \* 4 = 60 cubic units.'

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

Hint: Consider different algebraic techniques.

1. Method 1

Add 7 to both sides and then divide by 4.

2. Method 2

Use substitution or graphically represent the equation.

One method is to isolate x by adding 7 to both sides and then dividing by 4. Another method is to use substitution or graphically represent the equation.