

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 ✓

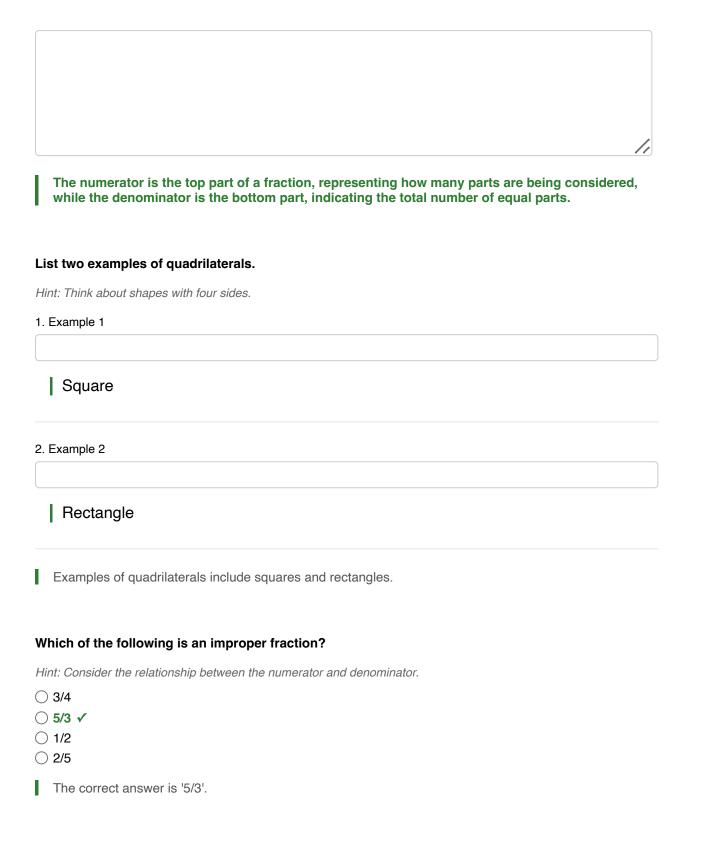
 \Box Divisible only by 1 and itself \checkmark

- 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 π 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 π 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.