

Math Vocabulary Worksheets Answer Key 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?

undefined. Odd Number

undefined. Prime Number

undefined. Even Number ✓

undefined. Composite Number

The correct answer is 'Even Number'.

Select all the properties that define a prime number.

undefined. Greater than 1 ✓

undefined. Divisible only by 1 and itself ✓

undefined. Has more than two divisors

undefined. 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.

The numerator is the top part of a fraction, representing how many parts are being considered, while the denominator is the bottom part, indicating the total number of equal parts.

List two examples of quadrilaterals.

1. Example 1

Square

2. Example 2

Rectangle

Examples of quadrilaterals include squares and rectangles.

Which of the following is an improper fraction?

undefined. $\frac{3}{4}$

undefined. $\frac{5}{3}$ ✓

undefined. $\frac{1}{2}$

undefined. $\frac{2}{5}$

The correct answer is ' $\frac{5}{3}$ '.

Part 2: Comprehension and Application

Which shape has all points equidistant from its center?

undefined. Square

undefined. Triangle

undefined. Circle ✓

undefined. Rectangle

The correct answer is 'Circle'.

Identify the correct statements about polygons.

undefined. They have straight sides. ✓

undefined. They are always three-sided.

undefined. They can be open figures.

undefined. They are closed figures. ✓

The correct answers are 'They have straight sides.' and 'They are closed figures.'

Describe how the mean of a data set is calculated.

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?

undefined. 11 units

undefined. 22 units ✓

undefined. 24 units

undefined. 16 units

The correct answer is '22 units'.

A mixed number is composed of which of the following?

undefined. An integer ✓

undefined. A decimal

undefined. A proper fraction ✓

undefined. An improper fraction

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

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

The mixed number is $2 \frac{1}{4}$.

Part 3: Analysis, Evaluation, and Creation

Which property distinguishes a composite number from a prime number?

undefined. It is odd.

undefined. It has more than two divisors. ✓

undefined. It is even.

undefined. 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 $3x + 6$.

undefined. $3(x + 2)$ ✓

undefined. $6 + 3x$ ✓

undefined. $x + 6$

undefined. $3x + 3 + 3$

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.

The area of a triangle is calculated using the formula: $\text{Area} = \frac{1}{2} * \text{base} * \text{height}$.

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

undefined. Calculating the total cost of items in a shopping cart.

undefined. Solving for x in the equation $2x + 3 = 11$. ✓

undefined. Counting the number of apples in a basket.

undefined. 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.

undefined. It has a diameter twice the radius. ✓

undefined. Its circumference is π times the diameter. ✓

undefined. It has four equal sides.

undefined. All points on the circle are equidistant from the center. ✓

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.

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.

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.