8 1 inverse variation answers form

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Inverse Variation**

Definition of Inverse Variation (Class 8)

Inverse variation is a mathematical relationship where the value of one variable decreases as the value of another variable increases.

Mathematical Equation of Inverse Variation

The mathematical equation for inverse variation is:

$$y = k/x$$

where:

- y is the dependent variable
- x is the independent variable
- k is a constant

Formula of Inverse Variation

The formula for inverse variation is the same as the mathematical equation:

$$y = k/x$$

How to Test for Inverse Variation

To test for inverse variation:

- Plot the data points on a graph.

- If the points form a hyperbola, then the relationship is inverse.

How to Solve Inverse Variation

To solve inverse variation:

1. Find the constant k by substituting a known point into the equation.
2. Write the equation in the form y = k/x.

Real-Life Example of Inverse Variation

- The time it takes to fill a pool with water and the number of hoses used to fill it are inversely related.

How to Find K in Inverse Variation

To find k in inverse variation:

- Substitute a known point (x, y) into the equation: y = k/x.
- Solve for k.

Formula for Direct and Inverse Variation

- Direct variation: y = kx
- Inverse variation: y = k/x

Examples of Direct and Inverse Variation

Direct Variation:

- Distance traveled by a car and time spent driving
- Cost of purchasing items and the number of items bought

Inverse Variation:

- Speed of a car and time spent traveling
- Number of hours worked and amount earned

Y KX Meaning

- y is directly proportional to x.

How to Find Y-Intercept

- In inverse variation, there is no y-intercept.

How to Find Y in Direct Variation

- Use the equation $y = kx$, where k is the constant of variation.

How to Answer Inverse Functions

- Inverse functions undo the original function.

How to Translate Inverse Variation

- To translate inverse variation, use the following steps:
    - Find the constant k.
    - Multiply y by the reciprocal of x.

How to Tell if a Word Problem is Direct or Inverse

- Look for key words such as "directly proportional" or "inversely proportional."

How to Solve Inverse Proportion Word Problems

- Use the formula $y = k/x$.
- Find the constant k.
- Substitute the given values into the equation and solve for the unknown variable.

Inverse of 1

- The inverse of 1 is 1.

Formula for Inverse

- Inverse: $y = 1/x$

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