



Rearranging Formulas

Today's Standard

HSA.CED.A4 - Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. For example, rearrange Ohm's law $V = IR$ to highlight resistance R .

Real-World Applications for this Standard

Rearranging the formula for distance, speed, and time: $d = rt$; Solving for interest rate in the compound interest formula: $A = P(1 + r/n)^{(nt)}$; Isolating the variable in the area formula for a rectangle: $A = lw$; Rearranging the formula for kinetic energy: $KE = 1/2 mv^2$

Today I Learned

Today we learned how to rearrange formulas to find different things. For example, if we know how fast and how long we travel, we can find the distance.

Common Stumbling Blocks

Sometimes kids think that changing a formula changes what it means. But it doesn't; it just shows it in a different way. Another thing kids might think is that there's only one right way to write a formula, but that's not true. There are many ways to write it correctly.

Quiz Me

- What do we do when we rearrange a formula?
- Can you give an example of a formula we can rearrange?
- Why do we rearrange formulas?
- What happens to the relationship between variables when we rearrange a formula?
- Is there only one right way to write a formula?

Help Me

Rearranging formulas helps us find different things. For example, if we know how fast a car is going and how long it travels, we can find out how far it went. This is useful in many real-life situations, like planning trips or understanding science experiments.

