Multiplication as Scaling

Today's Standard

5.NF.B5 - Interpret multiplication as scaling (resizing), by:

Real-World Applications for this Standard

Resizing a recipe for more or fewer servings; Adjusting the dimensions of a model or drawing; Scaling distances on a map; Changing the size of a photo or image; Resizing furniture to fit a space

Today I Learned

Today we learned about how multiplying a number by a fraction can change its size. This is called scaling or resizing.

Common Stumbling Blocks

Some kids might think that multiplying always makes numbers bigger, but that's not true when you multiply by a fraction that's less than one. Another tricky part is mixing up multiplication and division.

Quiz Me

- What happens when you multiply a number by a fraction less than one?

- Can multiplication make a number smaller?

- What is scaling?

- Give an example of resizing something.

- Is multiplying by a fraction the same as dividing?

Help Me

Multiplying by a fraction can change the size of something. For example, if you have a recipe for 4 people but you need it for 2, you can multiply the ingredients by 1/2 to make the right amount.