Relating Decimal & Fraction Multiplication

Objective: I can convert decimals to fractions and x.



Check X Reasoning

A fraction **x** a fraction = Product will be less then what you started with

- A whole number x a fraction = Product will increase
- "of a number" means product will become less
- "of" means to multiply



$$10 \times 1 = 10$$

$$10 \times 10 = 100$$

$$10 \times 10 \times 10 = 1,000$$

$$10 \times (10 \times 10 \times 10) = 10,000$$

$$10 \times 10 \times (10 \times 10 \times 10) = 100,000$$

$$! 10 \times 10 \times 10 \times (10 \times 10 \times 10) = 1,000,000$$

Multiplying Fractions

Objective: I can multiply to solve fraction word problems

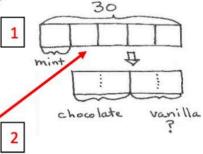
Joakim is icing 30 cupcakes. He spreads mint icing on $\frac{1}{5}$ of the cupcakes and chocolate on $\frac{1}{2}$ of the remaining cupcakes. The rest will get vanilla frosting. How many cupcakes have vanilla frosting?

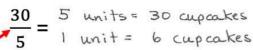
Use a tape diagram to visualize the info. The denominator tells me that 5 makes up the "whole".

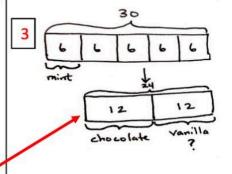
30 units is divided by 5, / what is each unit worth?

1/5 = 6. 4/5 is left. Half of that (2/5) is chocolate. The last half (2/5) must be vanilla!

2/4 of 30 = 12





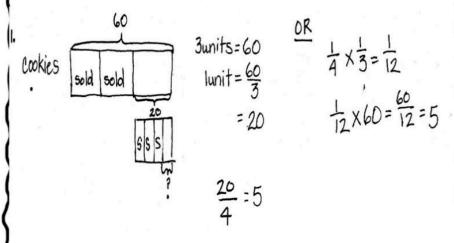


5th M4 L 16 Word Problems with Fraction by Fraction x

Multiplying Fractions

Objective: I can multiply to solve fraction word problems

Mrs. Onusko made 60 cookies for a bake sale. She sold $\frac{2}{3}$ of them and gave $\frac{3}{4}$ of the remaining cookies to the students working at the sale. How many cookies did she have left?



Mrs. On usko had 5 cookies left.