7.2 & 7.3 Multiplying Fractions by Whole Numbers and Multiplying Fractions by Fractions

You know how to multiply whole numbers and decimals by each other. Now you'll learn to multiply fractions by whole numbers and other fractions.



Did you know that to multiply fractions you do <u>NOT</u> need common denominators? All you need to do is multiply numerators and denominators and then reduce/simplify?!

Rules for Multiplying Fractions

- 1. Write all whole numbers and mixed numbers as improper fractions
- 2. Multiply the numerators
- 3. Multiply the denominators
- 4. Simplify your final answer





- Ex C $4 \times 5 \frac{3}{4} = ----= =$
- Ex D $2\frac{3}{5} \times \frac{7}{8} = -----=$

Ex E
$$\frac{2}{3} \times \frac{3}{4} = ----=$$

Ex F
$$3\frac{1}{2} \times 1\frac{1}{2} = -----=$$

What multiplication problem is this a model of?



Could you draw your own model of the product of two fractions?