Chapter 6: Multiplying Fractions

Using the Algorithm to Solve (Procedure/Follow the Steps)

Step 1

* Turn any mixed numbers into improper fractions
* Turn whole numbers into a fraction by putting a ‘1’ under them

Cross Simplify

Look for common factors to simplify numbers

Step 2

* Check if you can cross simplify
* Multiply: Numerator x Numerator and Denominator x Denominator

Step 3

* Turn an improper fraction into a mixed number and check for lowest terms

Show You Know



Note: The order in which we multiply fractions does not change the product, known as *commutative property*.

Multiply Using a Model

Hexagon Trapezoid Rhombus Triangle

= 1 = $\frac{1}{2}$ = $\frac{1}{3}$ = $\frac{1}{6}$

Example of Using a Model

3 x $\frac{1}{6}$ = $\frac{3}{6}$ = $\frac{1}{2}$

\*\*Multiplication can also be written as repeated addition\*\*

$\frac{1}{6}$+ $\frac{1}{6}$ + $\frac{1}{6}$ = $\frac{3}{6}$ = $\frac{1}{2}$

Multiplication Using Number Lines

Note: There are 3 “jumps” and each jump is 2/3 along the number line.

