

Title **NF.4 Fraction Multiplication**

Videos <https://youtube/H3ZY65ickmw> (Fraction Multiplied by a Fraction)
https://youtube/B8LVDxQB_LQ (Fraction Multiplied by Whole Number)
https://youtube/ZRHvs5S_ZOA (Word Problems)

Anchor Chart

Fractions X Whole #s

$\frac{1}{4} \times 3$

→ I've got one-fourth three times ←

REPEATED ADDITION: $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$

PICTURES: $\frac{3}{4}$ shaded

MULTIPLYING FRACTIONS:

1. DRAW A MODEL of fraction 2

$\frac{3}{5}$

$\frac{1}{3}$ of $\frac{3}{5}$
MEANS MULTIPLY!

2. Add first fraction to Model

3. SHADE PARTS THAT OVERLAP

$\frac{3}{15}$
SHADED BOTH TIMES
total PARTS

Multiplication Method: $\frac{1}{3} \times \frac{3}{5} = \frac{1 \times 3}{3 \times 5} = \frac{3}{15}$ SIMPLIFY $= \frac{1}{5}$