## Lesson 5.4 Multiplying Fractions

Goal: to multiply fractions and mixed numbers

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**Multiplying Fractions:** 

$$\frac{2}{3} \cdot \frac{4}{5} = \frac{8}{15}$$

How do we multiply fractions?



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Multiply:

$$\frac{7}{10} \cdot \left(\frac{-4}{21}\right) = \frac{-28}{210}$$

Now try with cross reducing:

$$\frac{7.42}{5.45.213} = \frac{2}{15}$$

Find the product:

$$\frac{-\frac{1}{2}}{5} \cdot \frac{11}{124} = -\frac{11}{20}$$

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Find the product:

$$\left(\frac{7}{8}\right)^2 = \frac{7}{8} \cdot \frac{7}{8} = \frac{49}{64}$$

$$\frac{3}{4}(\frac{13}{12}) = -\frac{9}{1} = -9$$

To multiply mixed numbers, you will turn them into improper fractions first, and then put your final answer back into a mixed fraction if needed.

$$\frac{3\frac{3}{5}\cdot\left(-1\frac{5}{9}\right)}{\frac{28}{5}\cdot-\frac{14}{91}} = \frac{28}{5}$$

Multiply: 
$$\frac{47}{8} \cdot 5\frac{2}{3}$$
  $\frac{13}{8} \cdot \frac{17}{8} = \frac{221}{8}$   $\frac{27}{821}$   $\frac{13}{27}$   $\frac{17}{8}$   $\frac{1}{48} \cdot (-1\frac{2}{3})$   $\frac{1}{8} \cdot -\frac{5}{3} = \frac{955}{8}$ 

Simplify:  

$$\frac{|3y'|y^5}{4 \cdot 93} = \frac{y^6}{12}$$

$$\frac{-4x^2}{321} \cdot \frac{7x^3}{164} = -\frac{1}{12}$$

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