Lesson 5.5

Dividing Fractions

Goal: to divide fractions and mixed numbers

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Multiply:

$$\frac{5}{7} \cdot \frac{1}{5} = 1$$

$$\frac{2}{7} \cdot \frac{7}{2} = 1$$

What are these called?

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When you are trying to <u>divide</u> by a fraction, it is the same thing as multiplying by its reciprocal.

Think

Keep --- Change --- Flip

$$\frac{2}{5} \cdot \frac{3}{4}$$

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

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Find the quotient:

$$-\frac{2}{3} \div \left(-\frac{5}{6}\right) \Rightarrow -\frac{2}{3} \cdot \frac{6}{5} = \frac{4}{5}$$

$$-6\frac{2}{3} \div 1\frac{5}{9} \quad -\frac{20}{3} \div \frac{14}{9} = -\frac{20}{3} \cdot \frac{9}{14}$$

$$-\frac{80}{7} \Rightarrow 7\frac{2}{7} \quad -4\frac{2}{7}$$

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Carissa mixes 2 gallons of fruit punch for a cookout. If each of the tumblers she plans to serve the punch in holds $2\frac{1}{3}$ cups, how many rumblers can she fill?

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Evaluate:

$$\frac{5}{9} \div \left(\frac{13}{18} - \frac{3}{18}\right)$$

$$\frac{5}{9} \div \frac{5}{18} \nearrow \frac{5}{9} \cdot \frac{18}{5} = 2$$

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