


CLO:

Students will review how to add, subtract, multiply and divide fractions to strengthen their understanding of fraction manipulation

MULTIPLYING FRACTIONS

When you multiply fractions, no need for any common denominator, just multiply straight across and reduce if necessary.

Example:


$$\frac{12}{5} \xrightarrow{*} \frac{6}{7} = \frac{72}{35}$$



$$\frac{11}{\cancel{3}^2} * \frac{\cancel{6}^2}{5} = \frac{22}{5}$$

$$\frac{66}{15} = \frac{22}{5}$$

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Practice:

$$\frac{21}{2} * \frac{7}{3} = \frac{49}{2}$$

Handwritten purple annotations: A '7' with an arrow pointing to the numerator 21, and a '3' with an arrow pointing to the denominator 3. The result is written as 49 over 2.

$$\frac{15}{8} * \frac{9}{2} = \frac{135}{16}$$

Handwritten purple annotations: The result is written as 135 over 16 with a decimal point.

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DIVIDING FRACTIONS

- **No need for a common denominator here, either.**
- **When dividing fractions all you need to do is remember**
SKIP, FLIP, MULTIPLY!

SKIP THE FIRST FRACTION

FLIP THE SECOND FRACTION

THEN MULTIPLY THE TWO FRACTIONS TOGETHER

REDUCE IF YOU CAN

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EXAMPLE:

$$\frac{21}{2} \div \frac{7}{3}$$

$$3 \cancel{\frac{21}{2}} \cdot \frac{3}{\cancel{7}_1} = \frac{9}{2}$$

$$\frac{15}{8} \div \frac{9}{2}$$

$$5 \cancel{\frac{15}{8}} \cdot \frac{\cancel{2}_1}{\cancel{9}_3} = \frac{5}{12}$$

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PRACTICE

$$\begin{array}{l} 15 \div \frac{7}{3} \\ \frac{15}{1} \div \frac{7}{3} \\ \frac{15}{1} \cdot \frac{3}{7} = \frac{45}{7} \end{array}$$

$$\begin{array}{l} 4 \frac{8}{9} \div \frac{10}{1} \\ \frac{8}{9} \cdot \frac{1}{10} \\ \frac{4}{45} \end{array}$$

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MIXED FRACTIONS

- **TO CONVERT A MIXED FRACTION TO AN IMPROPER FRACTION, MULTIPLY THE BASE BY THE DENOMINATOR, THEN ADD THE NUMERATOR WHICH WILL GIVE YOU YOUR SUM**
- **TAKE YOUR SUM AND PLACE IT OVER THE DENOMINATOR**

MIXED FRACTION

$$3\frac{5}{8}$$

IMPROPER FRACTION

