## Multiplying Fractions Lesson \& Practice

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Instructions: Use the lesson video (https://youtu.be/hdSaaETKDCc?si=hKwDGRS1bC2UR3nC) to complete the following notes. After you have filled out the notes, complete the practice questions.

## Notes

When multiplying fractions, you multiply the numerators and multiply the denominators. For each of the following examples, multiply the fractions and make sure your final answer is simplified.

Example 1: $\quad \frac{1}{4} \times \frac{3}{5}$

$$
\begin{aligned}
& =\frac{1 \times 3}{4 \times 5} \\
& =\frac{3}{20}
\end{aligned}
$$

Example 2: $\quad \frac{3}{4} \times \frac{5}{6}$
OR reduce first

$$
\begin{array}{ll}
=\frac{3 \times 5}{4 \times 6} & \frac{3}{4} \times \frac{5}{62} \\
=\frac{15}{24} \div 3 & =\frac{1 \times 5}{4 \times 2} \\
=\frac{5}{8} & =\frac{5}{8}
\end{array}
$$

Example 3:

$$
\begin{array}{ll}
4 \times \frac{3}{8} & \text { OR reduce first } \\
= & \frac{4}{1} \times \frac{3}{8} \\
= & \frac{4 \times 3}{1 \times 8} \\
= & \frac{12 \div \frac{3}{82}}{8 \div 4}
\end{array}
$$

Evaluate each of the following. Make sure your final answer is simplified.

1) $\frac{-5}{4} \times \frac{1}{3}$
2) $\frac{4}{7} \times \frac{7}{105}$
3) $\frac{4}{9} \times \frac{7}{4}$
$=\frac{-5}{12}$
$=\frac{4 \times 1}{1 \times 5}$
$=\frac{1 \times 7}{9 \times 1}$
$=\frac{4}{5}$
$=\frac{7}{9}$
4) $\frac{-1}{3} \times \frac{5}{42}$
5) $-2 \times \frac{3}{7}$
$=\frac{-2}{1} \times \frac{3}{7}$
6) $\frac{20}{3} \times \frac{4}{5}$
$=\frac{2 \times 4}{3 \times 1}$
$=\frac{-2 \times 3}{1 \times 7}$
$=\frac{8}{3}$
7) $\frac{1}{5} x-15-3$
8) $\frac{51 \sigma}{7} \times \frac{1}{14}$
9) $-\frac{2}{13} \frac{x_{3}}{x_{1}} \bar{z}_{1}$
$=\frac{1}{1} \times-3$
$=1 \times-3$
$=\frac{5 \times 1}{7 \times 7}$
$=\frac{-2 \times 1}{\mid \times 1}$
$=-3$
$=\frac{5}{49}$
$=\frac{-2}{1}$
$=-2$
10) $\frac{9}{5} \times \frac{11}{182}$
$=\frac{1 \times 11}{5 \times 2}$
$=\frac{11}{10}$
11) $-\frac{2}{5} \times \frac{3}{20}$
$=\frac{-1 \times 3}{5 \times 10}$
$=\frac{-3}{50}$
12) $\frac{-2}{9} \times 2$
$=\frac{-2}{9} \times \frac{2}{1}$
$=\frac{-2 \times 2}{9 \times 1}$
$=\frac{-4}{9}$
