## Multiply Fractions

Multiply fractions is not very hard, specially if you know your times tables well. In this lesson, we'll start with multiplying two proper fractions.

To multiply two proper fractions, multiply the numerators together and multiply denominators together to get your answer. Reduce the final fractions if possible.

Let's do the following examples to learn how to multiply two proper fractions:

Example 1: Multiply the following fractions and write your answer in simplest form if possible.
a. $\frac{2}{3} \times \frac{2}{5}=\frac{2 \times 2}{3 \times 5}=\frac{4}{15}$
b.

$$
\frac{2}{3} \times \frac{1}{2}=\frac{z^{1}}{\sigma_{3}}=\frac{1}{3}
$$

c.

$$
\frac{2}{3} \times \frac{3}{10}=\frac{-6^{1}}{3 \theta_{5}}=\frac{1}{5}
$$

$$
\frac{12}{25} \times \frac{15}{16}=\frac{18 \theta^{9}}{40 \theta_{20}}=\frac{9}{20}
$$

$$
\frac{6}{13} \times \frac{2}{3}=\frac{12^{4}}{39_{13}}=\frac{4}{13}
$$

Recall, gef of 12 and 39 is 3 , so cut both as $12 \div 3=4$ and $39 \div 3=13$

GCF for 180 and 400 is 20. So, divide (cut) both of them with 20 to get 9 as new numerator and 20 as new denominator because $180 \div \mathbf{2 0}=9$ and $\mathbf{4 0 0} \div \mathbf{2 0}=\mathbf{2 0}$
e.

$$
\frac{14}{17} \times \frac{11}{14}=\frac{11}{\begin{array}{c}
154 \\
238 \\
17
\end{array}}=\frac{11}{17}
$$

