

Multiplying Fractions

$$\frac{1}{3} \cdot \frac{3}{5} = \frac{3}{15} \quad \begin{array}{r} 3 \overline{) 3 \ 15} \\ \underline{1 \ 5} \end{array}$$
$$= \frac{1}{5}$$

or

$$\frac{1}{\underset{(1)}{\cancel{3}}} \cdot \frac{\overset{3}{\cancel{3}}}{5} = \frac{1}{5}$$

1) Do not get a common denominator.

2) Always simplify!

or

1) Cancel before
X. (divisibility)

$$\left(\frac{6}{7} \right) \div \left(\frac{2}{3} \right) = \frac{4}{7}$$

1) Diag. # 5 (Both sets)
? Divisability

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$$\left(\frac{3}{8} \right) \div \left(\frac{2}{9} \right) = \frac{1}{12}$$

$$\left(\frac{3}{10} \right) \div \left(\frac{5}{6} \right) = \frac{1}{4}$$

$$\left(\frac{7}{9} \right) \div \left(\frac{3}{5} \right) = \frac{7}{15}$$

$$\boxed{x \cdot \frac{1}{5}} \quad x = \frac{3}{7}$$

$$\frac{3}{7} \cdot \frac{1}{5}$$
$$\uparrow$$
$$x \cdot \frac{1}{5}$$

If can not cancel-
multiply.

$$\frac{1}{3} \cdot \frac{7}{8} = \frac{7}{24}$$