

Intro

When multiplying two fractions, such as $\frac{3}{8} \times \frac{2}{5}$, there are two ways you can use to write the product in simplest form.

Method 1
Simplify after multiplying.

Show Answer

Method 2
Simplify before multiplying.

Show Answer

Why is this Useful?

1. $\frac{13}{20} \cdot \frac{4}{39} =$

2. $\frac{5}{9} \cdot \frac{12}{25} =$

3. $\frac{10}{24} \cdot \frac{2}{5} =$

4. $\frac{4}{15} \cdot \frac{10}{18} =$

5. $4 \cdot \frac{11}{44} =$

6. $12 \cdot \frac{7}{20} =$

7. $\frac{18}{3} \cdot \frac{15}{3} =$

8. $\frac{24}{4} \cdot \frac{36}{10} =$

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Method 1

Simplify after multiplying.

Show Answer

$$\frac{3}{8} \cdot \frac{2}{5} = \frac{6}{40} \div 2 = \frac{3}{20}$$

Method 2

Simplify before multiplying.

Show Answer

$$\frac{3}{\cancel{8}^4} \cdot \frac{\cancel{2}^1}{5} = \frac{3}{20}$$

Why is this Useful?

$$1. \frac{\cancel{13}^1}{\cancel{20}_5} \cdot \frac{\cancel{4}^1}{\cancel{39}_3} = \boxed{\frac{1}{15}}$$

$$2. \frac{\cancel{5}^1}{\cancel{9}_3} \cdot \frac{\cancel{12}^4}{\cancel{25}_5} = \boxed{\frac{4}{15}}$$

$$3. \frac{\cancel{10}^2}{\cancel{24}_{12}} \cdot \frac{\cancel{2}^1}{\cancel{5}_1} = \boxed{\frac{1}{6}}$$

$$4. \frac{\cancel{4}^2}{\cancel{15}_3} \cdot \frac{\cancel{10}^2}{\cancel{18}_9} = \boxed{\frac{4}{27}}$$

$$5. 4 \cdot \frac{11}{44} = \frac{\cancel{4}^1}{1} \cdot \frac{11}{\cancel{44}_{11}} = \frac{11}{11} = \boxed{1}$$

$$6. 12 \cdot \frac{7}{20} = \frac{\cancel{12}^3}{1} \cdot \frac{7}{\cancel{20}_5} = \frac{21}{5} = \boxed{4\frac{1}{5}}$$

$$7. \frac{\cancel{18}_6}{\cancel{3}_1} \cdot \frac{\cancel{15}_5}{\cancel{3}_1} = \frac{30}{1} = \boxed{30}$$

$$8. \frac{\cancel{24}_{12}}{\cancel{4}_1} \cdot \frac{\cancel{36}_9}{\cancel{10}_5} = \frac{108}{5} = \boxed{21\frac{3}{5}}$$