

LESSON 13
Division By A Fraction

Dividing by a fraction is the same as multiplying by its inverse.

Example 1:

$$\frac{3}{7} \div \frac{4}{5}$$

Solution: Invert the fraction that comes after the division sign.

Invert $\frac{4}{5}$ To $\frac{5}{4}$ Then Multiply

$$\frac{3}{7} \times \frac{5}{4} = \frac{15}{28}$$

Change The Division To Multiplication And Find A Reduced Answer

<p>1. $\frac{3}{7} \div \frac{24}{5}$</p> <p>$\frac{3}{7} \times \frac{5}{24} = \frac{5}{56}$</p>	<p>6. $\frac{15}{16} \div \frac{25}{24}$</p> <p>$\frac{15}{16} \times \frac{24}{25} = \frac{9}{10}$</p>	<p>11. $\left(\frac{42}{31}\right) // \left(\frac{21}{62}\right)$</p> <p>$\frac{42}{31} \times \frac{62}{21} = 4$</p>
<p>2. $\frac{6}{11} \div \frac{6}{7}$</p> <p>$\frac{6}{11} \times \frac{7}{6} = \frac{7}{11}$</p>	<p>7. $\frac{9}{20} \div \frac{5}{9}$</p> <p>$\frac{9}{20} \times \frac{9}{5} = \frac{81}{100}$</p>	<p>12. $\left(\frac{45}{54}\right) // \left(\frac{30}{27}\right)$</p> <p>$\frac{45}{54} \times \frac{27}{30} = \frac{3}{4}$</p>
<p>3. $\frac{12}{13} \div \frac{12}{13}$</p> <p>$\frac{12}{13} \times \frac{13}{12} = 1$</p>	<p>8. $\frac{34}{58} \div \frac{17}{29}$</p> <p>$\frac{34}{58} \times \frac{29}{17} = 1$</p>	<p>13. $\left(\frac{16}{25}\right) // \left(\frac{40}{35}\right)$</p> <p>$\frac{16}{25} \times \frac{35}{40} = \frac{14}{25}$</p>
<p>4. $\frac{25}{33} \div \frac{10}{11}$</p> <p>$\frac{25}{33} \times \frac{11}{10} = \frac{5}{6}$</p>	<p>9. $\frac{15}{91} \div \frac{45}{13}$</p> <p>$\frac{15}{91} \times \frac{13}{45} = \frac{1}{21}$</p>	<p>14. $\left(\frac{35}{36}\right) // \left(\frac{49}{24}\right)$</p> <p>$\frac{35}{36} \times \frac{24}{49} = \frac{10}{21}$</p>
<p>5. $\frac{14}{45} \div \frac{4}{9}$</p> <p>$\frac{14}{45} \times \frac{9}{4} = \frac{7}{10}$</p>	<p>10. $\frac{14}{45} \div \frac{49}{30}$</p> <p>$\frac{14}{45} \times \frac{30}{49} = \frac{4}{21}$</p>	<p>15. $\left(\frac{25}{54}\right) // \left(\frac{100}{81}\right)$</p> <p>$\frac{25}{54} \times \frac{81}{100} = \frac{3}{8}$</p>