

## LESSON 30

# Multiplication Of Mixed Numbers

Mixed numbers can be multiplied after changing them to improper fractions.

Example 1: Multiply  $7 \frac{1}{2} \times 1 \frac{1}{4}$

$$7 \frac{1}{2} \times 1 \frac{1}{4}$$

$$\frac{15}{2} \times \frac{5}{4} = \frac{75}{8} = 9 \frac{3}{8}$$

Example 2: Multiply  $1 \frac{1}{5} \times 3 \frac{1}{3}$

$$1 \frac{1}{5} \times 3 \frac{1}{3}$$

$$\begin{array}{c} 2 \\ \cancel{6} \\ \cancel{5} \\ 1 \end{array} \times \begin{array}{c} 2 \\ \cancel{10} \\ \cancel{3} \\ 1 \end{array} = \frac{4}{1} = 4$$

# Multiply By Changing The Mixed Numbers To Improper Fractions

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|--|--|---|
| <p>1. <math>1 \frac{2}{3} \times \frac{2}{7}</math></p> $\frac{5}{3} \times \frac{2}{7} = \frac{10}{21}$                     | <p>6. <math>4 \frac{1}{2} \times \frac{2}{5}</math></p> $\frac{9}{2} \times \frac{2}{5} = \frac{9}{5} = 1 \frac{4}{5}$         | <p>11. <math>2 \frac{2}{5} \times 1 \frac{1}{9}</math></p> $\frac{12}{5} \times \frac{10}{9} = \frac{8}{3} = 2 \frac{2}{3}$     |
| <p>2. <math>3 \frac{1}{5} \times \frac{2}{3}</math></p> $\frac{16}{5} \times \frac{2}{3} = \frac{32}{15} = 2 \frac{2}{15}$   | <p>7. <math>3 \frac{4}{5} \times \frac{1}{19}</math></p> $\frac{19}{5} \times \frac{1}{19} = \frac{1}{5}$                      | <p>12. <math>3 \frac{3}{5} \times 1 \frac{7}{18}</math></p> $\frac{18}{5} \times \frac{25}{18} = 5$                             |
| <p>3. <math>1 \frac{1}{8} \times 7</math></p> $\frac{9}{8} \times \frac{7}{1} = \frac{63}{8} = 7 \frac{7}{8}$                | <p>8. <math>6 \frac{1}{5} \times 5</math></p> $\frac{31}{5} \times \frac{5}{1} = \frac{31}{1}$                                 | <p>13. <math>6 \frac{1}{4} \times 1 \frac{3}{10}</math></p> $\frac{25}{4} \times \frac{13}{10} = \frac{65}{8} = 8 \frac{1}{8}$  |
| <p>4. <math>1 \frac{2}{3} \times 2 \frac{3}{4}</math></p> $\frac{5}{3} \times \frac{11}{4} = \frac{55}{12} = 4 \frac{7}{12}$ | <p>9. <math>2 \frac{2}{7} \times \frac{7}{16}</math></p> $\frac{16}{7} \times \frac{7}{16} = 1$                                | <p>14. <math>5 \frac{1}{7} \times 1 \frac{5}{9}</math></p> $\frac{36}{7} \times \frac{14}{9} = 8$                               |
| <p>5. <math>1 \frac{1}{7} \times 1 \frac{1}{7}</math></p> $\frac{8}{7} \times \frac{8}{7} = \frac{64}{49} = 1 \frac{15}{49}$ | <p>10. <math>3 \frac{1}{8} \times 1 \frac{2}{25}</math></p> $\frac{25}{8} \times \frac{27}{25} = \frac{27}{8} = 3 \frac{3}{8}$ | <p>15. <math>4 \frac{2}{7} \times 1 \frac{17}{18}</math></p> $\frac{30}{7} \times \frac{35}{18} = \frac{25}{3} = 8 \frac{1}{3}$ |