

Multiplying Mixed Numbers

Practice 4D: Chapter 10, pages 24-25

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Compute each product. Give your answer in simplest form.

$$7\frac{1}{6} \times 5 =$$

$$3 \times 2\frac{2}{5} =$$

$$9\frac{3}{4} \times 2 =$$

$$16 \times 2\frac{2}{3} =$$

$$5 \times 11\frac{7}{11} =$$

$$4 \times 9\frac{3}{8} =$$

$$3\frac{2}{3} \times 21 =$$

$$7\frac{5}{12} \times 8 =$$

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Compute each product. Give your answer in simplest form.

$$4 \times 3\frac{7}{9} =$$

$$2 \times 8\frac{4}{7} =$$

$$3 \times 9\frac{4}{11} =$$

$$10\frac{1}{18} \times 6 =$$

$$7 \times 5\frac{2}{3} =$$

$$1\frac{3}{14} \times 12 =$$

$$7\frac{7}{9} \times 10 =$$

$$3 \times 6\frac{5}{12} =$$

Multiplying Mixed Numbers Key



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$$\begin{aligned}7\frac{1}{6} \times 5 &= \left(7 + \frac{1}{6}\right) \times 5 = (7 \times 5) + \left(\frac{1}{6} \times 5\right) \\ &= 35 + \frac{5}{6} = \mathbf{35\frac{5}{6}}\end{aligned}$$

$$\begin{aligned}3 \times 2\frac{2}{5} &= 3 \times \left(2 + \frac{2}{5}\right) = (3 \times 2) + \left(3 \times \frac{2}{5}\right) \\ &= 6 + \frac{6}{5} = 6 + 1\frac{1}{5} = \mathbf{7\frac{1}{5}}\end{aligned}$$

$$\begin{aligned}9\frac{3}{4} \times 2 &= \left(9 + \frac{3}{4}\right) \times 2 = (9 \times 2) + \left(\frac{3}{4} \times 2\right) \\ &= 18 + \frac{6}{4} = 18 + \frac{3}{2} = 18 + 1\frac{1}{2} = \mathbf{19\frac{1}{2}}\end{aligned}$$

$$\begin{aligned}16 \times 2\frac{2}{3} &= 16 \times \left(2 + \frac{2}{3}\right) = (16 \times 2) + \left(16 \times \frac{2}{3}\right) \\ &= 32 + \frac{32}{3} = 32 + 10\frac{2}{3} = \mathbf{42\frac{2}{3}}\end{aligned}$$

$$\begin{aligned}5 \times 11\frac{7}{11} &= 5 \times \left(11 + \frac{7}{11}\right) = (5 \times 11) + \left(5 \times \frac{7}{11}\right) \\ &= 55 + \frac{35}{11} = 55 + 3\frac{2}{11} = \mathbf{58\frac{2}{11}}\end{aligned}$$

$$\begin{aligned}4 \times 9\frac{3}{8} &= 4 \times \left(9 + \frac{3}{8}\right) = (4 \times 9) + \left(4 \times \frac{3}{8}\right) \\ &= 36 + \frac{12}{8} = 36 + \frac{3}{2} = 36 + 1\frac{1}{2} = \mathbf{37\frac{1}{2}}\end{aligned}$$

$$\begin{aligned}3\frac{2}{3} \times 21 &= \left(3 + \frac{2}{3}\right) \times 21 = (3 \times 21) + \left(\frac{2}{3} \times 21\right) \\ &= 63 + \left(2 \times \frac{21}{3}\right) = 63 + (2 \times 7) \\ &= 63 + 14 = \mathbf{77}\end{aligned}$$

$$\begin{aligned}7\frac{5}{12} \times 8 &= \left(7 + \frac{5}{12}\right) \times 8 = (7 \times 8) + \left(\frac{5}{12} \times 8\right) \\ &= 56 + \frac{40}{12} = 56 + \frac{10}{3} = 56 + 3\frac{1}{3} = \mathbf{59\frac{1}{3}}\end{aligned}$$

$$\begin{aligned}4 \times 3\frac{7}{9} &= 4 \times \left(3 + \frac{7}{9}\right) = (4 \times 3) + \left(4 \times \frac{7}{9}\right) \\ &= 12 + \frac{28}{9} = 12 + 3\frac{1}{9} = \mathbf{15\frac{1}{9}}\end{aligned}$$

$$\begin{aligned}2 \times 8\frac{4}{7} &= 2 \times \left(8 + \frac{4}{7}\right) = (2 \times 8) + \left(2 \times \frac{4}{7}\right) \\ &= 16 + \frac{8}{7} = 16 + 1\frac{1}{7} = \mathbf{17\frac{1}{7}}\end{aligned}$$

$$\begin{aligned}3 \times 9\frac{4}{11} &= 3 \times \left(9 + \frac{4}{11}\right) = (3 \times 9) + \left(3 \times \frac{4}{11}\right) \\ &= 27 + \frac{12}{11} = 27 + 1\frac{1}{11} = \mathbf{28\frac{1}{11}}\end{aligned}$$

$$\begin{aligned}10\frac{1}{18} \times 6 &= \left(10 + \frac{1}{18}\right) \times 6 = (10 \times 6) + \left(\frac{1}{18} \times 6\right) \\ &= 60 + \frac{6}{18} = 60 + \frac{1}{3} = \mathbf{60\frac{1}{3}}\end{aligned}$$

$$\begin{aligned}7 \times 5\frac{2}{3} &= 7 \times \left(5 + \frac{2}{3}\right) = (7 \times 5) + \left(7 \times \frac{2}{3}\right) \\ &= 35 + \frac{14}{3} = 35 + 4\frac{2}{3} = \mathbf{39\frac{2}{3}}\end{aligned}$$

$$\begin{aligned}1\frac{3}{14} \times 12 &= \left(1 + \frac{3}{14}\right) \times 12 = (1 \times 12) + \left(\frac{3}{14} \times 12\right) \\ &= 12 + \frac{36}{14} = 12 + \frac{18}{7} = 12 + 2\frac{4}{7} = \mathbf{14\frac{4}{7}}\end{aligned}$$

$$\begin{aligned}7\frac{7}{9} \times 10 &= \left(7 + \frac{7}{9}\right) \times 10 = (7 \times 10) + \left(\frac{7}{9} \times 10\right) \\ &= 70 + \frac{70}{9} = 70 + 7\frac{7}{9} = \mathbf{77\frac{7}{9}}\end{aligned}$$

$$\begin{aligned}3 \times 6\frac{5}{12} &= 3 \times \left(6 + \frac{5}{12}\right) = (3 \times 6) + \left(3 \times \frac{5}{12}\right) \\ &= 18 + \frac{15}{12} = 18 + \frac{5}{4} = 18 + 1\frac{1}{4} = \mathbf{19\frac{1}{4}}\end{aligned}$$