

# Multiplying Mixed Numbers

$$\begin{aligned} 7\frac{6}{4} &\times 2\frac{1}{3} \\ 7\frac{6}{4} &\times 2\frac{1}{3} \\ 7\frac{1}{3} &= 3\frac{1}{4} \end{aligned}$$

$$\begin{pmatrix} 3 & 4 \\ 7 & 15 \end{pmatrix} \begin{pmatrix} - & 7 \\ 15 & \end{pmatrix}$$

$$\begin{pmatrix} \cancel{25} & \\ - & \cancel{7} \\ 7 & \\ \cancel{15} & \end{pmatrix} \begin{pmatrix} - & \cancel{7} \\ 15 & \\ \cancel{7} & \\ \cancel{15} & \end{pmatrix}$$

$$\frac{-5}{3} = -\frac{1}{w/2}$$


$$\begin{array}{r} 18 \\ 5 \overline{) 91} \\ \underline{5} \\ 41 \\ \underline{40} \\ 1 \end{array}$$

$$\left(-3\frac{1}{4}\right)\left(-2\frac{2}{5}\right)\left(2\frac{1}{3}\right)$$


$$\left(-\frac{13}{4}\right)\left(-\frac{12}{5}\right)\left(\frac{7}{3}\right)$$

$$\frac{91}{5} = \left(18\frac{1}{5}\right)$$


Do any exercise below and find your answer in the code. Each time the answer appears in the code write the letter of that exercise above it. Keep working and you will discover the three historical (hysterical) answers.

  $(1\frac{1}{4})(-2\frac{3}{5}) =$

$$-3\frac{1}{4}$$

  $(3\frac{4}{7})(\frac{-7}{15}) =$

$$-1\frac{2}{3}$$

  $(-3\frac{1}{4})(-2\frac{2}{5})(2\frac{1}{3}) =$

$$18\frac{1}{5}$$

★ G  $(-1\frac{5}{7})(4\frac{2}{3}) =$

$$\left(-\frac{12}{7}\right)\left(\frac{14}{3}\right)$$
$$\frac{-8}{1} = \textcircled{-8}$$

★ R  $(\frac{7}{11})(-3\frac{3}{10}) =$

$$\left(\frac{7}{11}\right)\left(-\frac{33}{10}\right)$$
$$\frac{-21}{10} = \textcircled{-2\frac{1}{10}}$$

★ L  $(-1\frac{5}{9})(-3)(-5\frac{1}{7}) =$

$$\left(-\frac{14}{9}\right)\left(-3\right)\left(-\frac{31}{7}\right)$$
$$\frac{-24}{1} = \textcircled{-24}$$

$$\star D \quad (-6) \left(-1\frac{2}{9}\right) =$$

$$\left(\begin{array}{c} 2 \\ -6 \\ 1 \end{array}\right) \left(\begin{array}{c} -11 \\ 9 \\ 3 \end{array}\right)$$

$$\frac{66}{3} = 7\frac{1}{3}$$

$$\star K \quad \left(-2\frac{1}{4}\right) (-7) =$$

$$\left(\begin{array}{c} -9 \\ 4 \\ 1 \end{array}\right) \left(\begin{array}{c} -7 \\ 1 \\ 1 \end{array}\right)$$

$$\frac{63}{4} = 15\frac{3}{4}$$

$$\star T \quad \left(4\frac{1}{2}\right) \left(5\frac{3}{5}\right) \left(\frac{7}{18}\right) =$$

$$\frac{9}{2} \cdot \frac{28}{5} \cdot \frac{7}{18}$$

$$\frac{49}{5} = 9\frac{4}{5}$$

$$\star Y \quad (1\frac{4}{11}) (1\frac{13}{20}) =$$

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

$$\star S \quad (-2\frac{1}{2}) (2\frac{2}{3}) (1\frac{1}{10}) =$$

$$-7\frac{1}{3}$$

~~$-\frac{2}{2} \times \frac{2}{3} \times \frac{1}{10}$~~   
 ~~$-\frac{2}{2} \times \frac{2}{3} \times \frac{1}{10}$~~   
 $-\frac{22}{3}$

$$\star N \quad (4\frac{1}{8}) (\frac{1}{6}) (-1\frac{6}{11}) =$$

$$-1\frac{1}{16}$$

★  $(-6\frac{1}{2})(-1\frac{1}{4}) =$

$8\frac{1}{8}$

$\frac{-13}{2} \cdot \frac{-5}{4} = \frac{65}{8}$

★  $(4)(-1\frac{4}{5})(-1\frac{1}{6}) =$

$\frac{2}{1} \cdot \frac{3}{5} \cdot \frac{7}{6}$

$\frac{42}{5} = 8\frac{2}{5}$

★  $(-1\frac{2}{3})(-3\frac{3}{4})(-4) =$

$\frac{-5}{3} \cdot \frac{-15}{4} \cdot \frac{-4}{1}$

$\frac{-25}{1} = -25$



$$\star F \quad \left(-2\frac{1}{2}\right) (8) = -20$$

$$\star E \quad \left(\frac{-2}{13}\right) \left(3\frac{5}{7}\right) \left(-4\frac{1}{2}\right) = 2\frac{4}{7}$$

Worksheet } Homework  
P 75 #6-14

QUIZ Tomorrow