

Order of Operations with Fractions (A)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & \left(\frac{1}{2}\right)^3 + \frac{2}{3} \\ &= \frac{1}{8} + \frac{2}{3} \\ &= \frac{19}{24} \end{aligned}$$

$$\begin{aligned} & \frac{1}{2} \times \frac{4}{9} + \frac{2}{5} \\ &= \frac{2}{9} + \frac{2}{5} \\ &= \frac{28}{45} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \times \frac{1}{6} + \frac{5}{8} \\ &= \frac{1}{8} + \frac{5}{8} \\ &= \frac{3}{4} \end{aligned}$$

$$\begin{aligned} & \frac{1}{5} \div \left(\frac{1}{4}\right)^2 \\ &= \frac{1}{5} \div \frac{1}{16} \\ &= \frac{16}{5} \\ &= 3\frac{1}{5} \end{aligned}$$

$$\begin{aligned} & \frac{2}{3} + \frac{1}{8} \div \frac{1}{9} \\ &= \frac{2}{3} + \frac{1}{72} \\ &= \frac{49}{72} \end{aligned}$$

$$\begin{aligned} & \frac{3}{5} \times \left(\frac{1}{5} + \frac{4}{5}\right) \\ &= \frac{3}{5} \times 1 \\ &= \frac{3}{5} \end{aligned}$$

$$\begin{aligned} & \frac{1}{8} \div \frac{1}{5} + \frac{1}{2} \\ &= \frac{5}{8} + \frac{1}{2} \\ &= \frac{9}{8} \\ &= 1\frac{1}{8} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{2} + \frac{3}{5}\right) \div \frac{2}{9} \\ &= \frac{11}{10} \div \frac{2}{9} \\ &= \frac{99}{20} \\ &= 4\frac{19}{20} \end{aligned}$$

$$\begin{aligned} & \frac{1}{6} - \frac{1}{9} \div \frac{5}{8} \\ &= \frac{1}{6} - \frac{5}{72} \\ &= \frac{7}{72} \end{aligned}$$

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$$\begin{aligned} & \left(\frac{3}{5} - \frac{1}{6} \right) \div \left(-\frac{1}{3} \right) \\ &= \frac{13}{30} \div \left(-\frac{1}{3} \right) \\ &= -\frac{13}{10} \\ &= -1\frac{3}{10} \end{aligned}$$

$$\begin{aligned} & \left(\left(-\frac{1}{3} \right) + \frac{5}{8} \right) \div \frac{8}{9} \\ &= \frac{7}{24} \div \frac{8}{9} \\ &= \frac{21}{64} \end{aligned}$$

$$\begin{aligned} & \left(\left(-\frac{1}{6} \right) - \left(-\frac{5}{8} \right) \right) \times \frac{1}{2} \\ &= \frac{11}{24} \times \frac{1}{2} \\ &= \frac{11}{48} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{1}{2} \right) - \left(-\frac{1}{5} \right)^2 \\ &= \left(-\frac{1}{2} \right) - \frac{1}{25} \\ &= -\frac{27}{50} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{2}{9} \right) \times \left(\left(-\frac{5}{9} \right) + \frac{5}{6} \right) \\ &= \left(-\frac{2}{9} \right) \times \frac{5}{18} \\ &= -\frac{5}{81} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{1}{8} \right) \times \left(-\frac{2}{3} \right) + \frac{5}{6} \\ &= \frac{1}{12} + \frac{5}{6} \\ &= \frac{11}{12} \end{aligned}$$

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$$\begin{aligned} & \left(\frac{1}{8} \times \frac{2}{3}\right) \div \frac{1}{3} + \left(\frac{4}{5}\right)^2 \\ &= \frac{1}{12} \div \frac{1}{3} + \left(\frac{4}{5}\right)^2 \\ &= \frac{1}{12} \div \frac{1}{3} + \frac{16}{25} \\ &= \frac{1}{4} + \frac{16}{25} \\ &= \frac{89}{100} \end{aligned}$$

$$\begin{aligned} & \left(\frac{2}{3}\right)^2 \div \left(\frac{1}{4} + \frac{1}{9}\right) \times \frac{1}{5} \\ &= \left(\frac{2}{3}\right)^2 \div \frac{13}{36} \times \frac{1}{5} \\ &= \frac{4}{9} \div \frac{13}{36} \times \frac{1}{5} \\ &= \frac{16}{13} \times \frac{1}{5} \\ &= \frac{16}{65} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{4} + \frac{1}{2}\right)^3 \div \left(\frac{5}{6} \times \frac{3}{8}\right) \\ &= \left(\frac{3}{4}\right)^3 \div \left(\frac{5}{6} \times \frac{3}{8}\right) \\ &= \left(\frac{3}{4}\right)^3 \div \frac{5}{16} \\ &= \frac{27}{64} \div \frac{5}{16} \\ &= \frac{27}{20} \\ &= 1\frac{7}{20} \end{aligned}$$

$$\begin{aligned} & \left(\frac{4}{9}\right)^2 \div \left(\frac{1}{3} + \frac{2}{9} - \frac{1}{2}\right) \\ &= \left(\frac{4}{9}\right)^2 \div \left(\frac{5}{9} - \frac{1}{2}\right) \\ &= \left(\frac{4}{9}\right)^2 \div \frac{1}{18} \\ &= \frac{16}{81} \div \frac{1}{18} \\ &= \frac{32}{9} \\ &= 3\frac{5}{9} \end{aligned}$$

Order of Operations with Decimals and Fractions (A) Answers

$$3.9 \times 0.5 + 4 \frac{5}{6} \div 3 \frac{3}{7} = \frac{2419}{720}$$

$$\left(\frac{5}{3} \times 4 \frac{5}{6}\right) \div 1.75 + \frac{5}{3} = \frac{395}{63}$$

$$\left(9 + \frac{1}{6}\right) \div \left(1.7 + 2 \frac{3}{4}\right) = \frac{550}{267}$$

$$2 \times \left(3 \frac{6}{7} - 2.3\right) \div 5 \frac{2}{9} = \frac{981}{1645}$$

$$5.2 + 2.1 \div \left(4.5 - 4 \frac{1}{7}\right) = \frac{277}{25}$$

$$\left(0.75 \times 1 \frac{4}{9}\right) \div \left(4 \frac{1}{6} + 1.75\right) = \frac{13}{71}$$

$$\left(\frac{3}{2}\right)^2 - 1 + 6 = \frac{29}{4}$$

$$0.8 \div \left(1.5 + \frac{2}{3}\right)^2 = \frac{144}{845}$$

$$\frac{2}{9} \left(10 \frac{1}{6} - 3 \frac{3}{7} - 1\right) = \frac{241}{189}$$

$$\left(7 \times \frac{10}{7}\right) \div 1.2 + 1 \frac{3}{4} = \frac{121}{12}$$