

# Order of Operations with Fractions (B)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

$$\frac{1}{3} \div \left( \frac{8}{9} - \frac{1}{9} + \frac{2}{5} \right)$$

$$\left( \left( \frac{2}{3} + \frac{4}{5} \right) \div \frac{7}{9} \right) \times \frac{1}{2}$$

$$\frac{2}{9} \div \left( \frac{2}{5} \times \frac{3}{8} + \frac{1}{3} \right)$$

$$\left( \left( \frac{1}{4} - \frac{1}{6} \right) \times \frac{8}{9} \right) \div \frac{7}{9}$$

$$\frac{2}{9} \times \left( \frac{3}{4} - \frac{1}{8} \div \frac{1}{2} \right)$$

$$\frac{8}{9} \div \left( \frac{1}{3} + \frac{5}{8} - \frac{1}{8} \right)$$

$$\frac{5}{6} \div \left( \frac{1}{9} + \frac{5}{8} - \frac{2}{3} \right)$$

$$\frac{3}{4} \times \left( \frac{4}{9} - \frac{3}{8} + \frac{1}{8} \right)$$

$$\frac{5}{9} - \frac{4}{9} \times \left( \frac{1}{4} + \frac{5}{6} \right)$$

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Simplify each expression using the correct order of operations.

$$\frac{1}{3} \div \left( \underline{\frac{8}{9} - \frac{1}{9}} + \frac{2}{5} \right)$$

$$= \frac{1}{3} \div \left( \underline{\frac{7}{9} + \frac{2}{5}} \right)$$

$$= \underline{\frac{1}{3} \div \frac{53}{45}}$$

$$= \underline{\frac{15}{53}}$$

$$\left( \underline{\left( \frac{2}{3} + \frac{4}{5} \right)} \div \frac{7}{9} \right) \times \frac{1}{2}$$

$$= \left( \underline{\frac{22}{15} \div \frac{7}{9}} \right) \times \frac{1}{2}$$

$$= \underline{\frac{66}{35} \times \frac{1}{2}}$$

$$= \underline{\frac{33}{35}}$$

$$\frac{2}{9} \div \left( \underline{\frac{2}{5} \times \frac{3}{8}} + \frac{1}{3} \right)$$

$$= \frac{2}{9} \div \left( \underline{\frac{3}{20} + \frac{1}{3}} \right)$$

$$= \underline{\frac{2}{9} \div \frac{29}{60}}$$

$$= \underline{\frac{40}{87}}$$

$$\left( \underline{\left( \frac{1}{4} - \frac{1}{6} \right)} \times \frac{8}{9} \right) \div \frac{7}{9}$$

$$= \left( \underline{\frac{1}{12} \times \frac{8}{9}} \right) \div \frac{7}{9}$$

$$= \underline{\frac{2}{27} \div \frac{7}{9}}$$

$$= \underline{\frac{2}{21}}$$

$$\frac{2}{9} \times \left( \underline{\frac{3}{4} - \frac{1}{8} \div \frac{1}{2}} \right)$$

$$= \frac{2}{9} \times \left( \underline{\frac{3}{4} - \frac{1}{4}} \right)$$

$$= \underline{\frac{2}{9} \times \frac{1}{2}}$$

$$= \underline{\frac{1}{9}}$$

$$\frac{8}{9} \div \left( \underline{\frac{1}{3} + \frac{5}{8}} - \frac{1}{8} \right)$$

$$= \frac{8}{9} \div \left( \underline{\frac{23}{24} - \frac{1}{8}} \right)$$

$$= \underline{\frac{8}{9} \div \frac{5}{6}}$$

$$= \underline{\frac{16}{15}}$$

$$= \underline{1\frac{1}{15}}$$

$$\frac{5}{6} \div \left( \underline{\frac{1}{9} + \frac{5}{8}} - \frac{2}{3} \right)$$

$$= \frac{5}{6} \div \left( \underline{\frac{53}{72} - \frac{2}{3}} \right)$$

$$= \underline{\frac{5}{6} \div \frac{5}{72}}$$

$$= \underline{12}$$

$$\frac{3}{4} \times \left( \underline{\frac{4}{9} - \frac{3}{8}} + \frac{1}{8} \right)$$

$$= \frac{3}{4} \times \left( \underline{\frac{5}{72} + \frac{1}{8}} \right)$$

$$= \underline{\frac{3}{4} \times \frac{7}{36}}$$

$$= \underline{\frac{7}{48}}$$

$$\frac{5}{9} - \frac{4}{9} \times \left( \underline{\frac{1}{4} + \frac{5}{6}} \right)$$

$$= \frac{5}{9} - \frac{4}{9} \times \underline{\frac{13}{12}}$$

$$= \underline{\frac{5}{9} - \frac{13}{27}}$$

$$= \underline{\frac{2}{27}}$$