

## Order of Operations with Fractions (B)

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

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

Simplify each expression using the correct order of operations.

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

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

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

$$\left(-\frac{3}{8}\right) \times \left(\frac{5}{6}\right)^2$$

$$\frac{2}{3} \div \left(-\frac{7}{9}\right) - \left(-\frac{1}{3}\right)$$

$$\left(\frac{2}{5}\right)^2 \div \left(-\frac{3}{5}\right)$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left( \left( -\frac{1}{2} \right) - \frac{1}{2} \right) \times \frac{8}{9} \\ &= \frac{(-1) \times \frac{8}{9}}{1} \\ &= -\frac{8}{9} \end{aligned}$$

$$\begin{aligned} & \frac{4}{5} - \left( -\frac{1}{6} \right) \div \left( -\frac{1}{9} \right) \\ &= \frac{4}{5} - \frac{3}{2} \\ &= -\frac{7}{10} \end{aligned}$$

$$\begin{aligned} & \frac{4}{9} \div \left( \frac{7}{8} - \frac{8}{9} \right) \\ &= \frac{4}{9} \div \left( -\frac{1}{72} \right) \\ &= -32 \end{aligned}$$

$$\begin{aligned} & \left( -\frac{3}{8} \right) \times \left( \frac{5}{6} \right)^2 \\ &= \left( -\frac{3}{8} \right) \times \frac{25}{36} \\ &= -\frac{25}{96} \end{aligned}$$

$$\begin{aligned} & \frac{2}{3} \div \left( -\frac{7}{9} \right) - \left( -\frac{1}{3} \right) \\ &= \left( -\frac{6}{7} \right) - \left( -\frac{1}{3} \right) \\ &= -\frac{11}{21} \end{aligned}$$

$$\begin{aligned} & \left( \frac{2}{5} \right)^2 \div \left( -\frac{3}{5} \right) \\ &= \frac{4}{25} \div \left( -\frac{3}{5} \right) \\ &= -\frac{4}{15} \end{aligned}$$