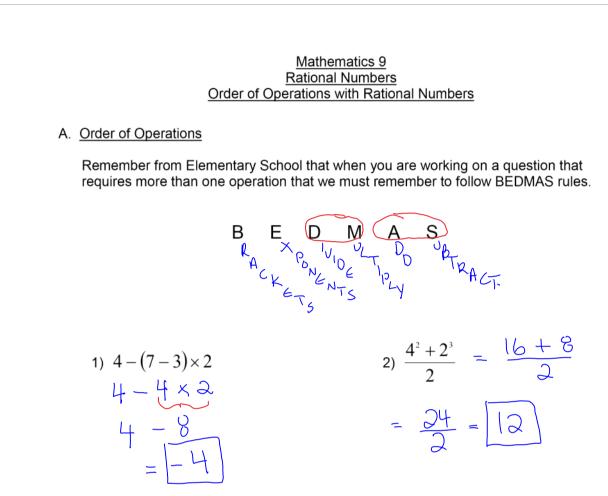
Order of Operations with Rational Numbers

October-13-16 1:18 PM



B. Order of Operations with Rational Numbers

The same set of rules can be applied to rational number questions. Remember that your final answer still needs to be reduced to lowest terms.

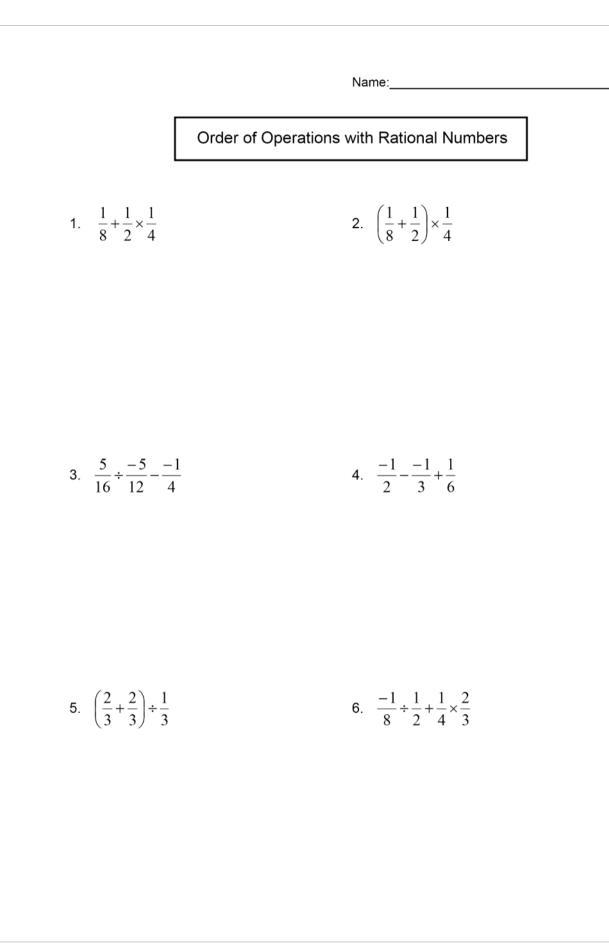
$$\frac{1}{4} \times \left(\frac{1}{3} + \frac{1}{2}\right)$$

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

$$\frac{2}{5} + \frac{5}{6}$$

$$= \frac{5}{24}$$

$$\begin{pmatrix} \frac{1}{2} \times \frac{2}{5} \end{pmatrix} + \begin{pmatrix} -\frac{1}{4} \div \frac{1}{2} \\ -\frac{1}{4} \div \frac{1}{4} \div \frac{1}{2} \\ -\frac{1}{4} \div \frac{1}{4} \div \frac{1}{2} \\ -\frac{1}{4} \div \frac{1}{4} \div \frac{1}{4} \\ -\frac{1}{4} \div \frac{1}{4}$$



7.
$$\left(\frac{3}{4} + \frac{-1}{2}\right) \times \left(\frac{1}{3} - \frac{1}{4}\right)$$

8. $\left(\frac{3}{5} + \frac{3}{10}\right) \times \left(\frac{1}{2} + \frac{1}{5}\right)$
9. $\left(\frac{-5}{6} + \frac{1}{2}\right) \div \left(\frac{-3}{4} - \frac{-1}{2}\right)$
10. $\frac{1}{8} - \left(\frac{-1}{2} + \frac{-1}{4}\right) \times \frac{3}{4}$
11. $-\frac{1}{3} + \frac{1}{2} + \frac{3}{4} - \frac{5}{6}$
12. $\left(-\frac{2}{3} - \frac{1}{2}\right) \times \left(\frac{-1}{4} - \frac{1}{2}\right)$

<u>Answers</u> 1) $\frac{1}{4}$ 2) $\frac{5}{32}$ 3) $-\frac{1}{2}$ 4) 0 5) 4 6) $-\frac{1}{12}$ 7) $\frac{1}{48}$ 8) 5 9) $\frac{4}{3}$ 10) $\frac{11}{16}$ 11) $-\frac{1}{2}$ 12) $\frac{7}{8}$