

[rational numbers]

1. Simplify

- $\frac{3}{4} - \frac{7}{8} \times \frac{6}{7} \div \frac{1}{2}$
- $\left(\frac{3}{4} - \frac{7}{8}\right) \times \frac{6}{7} \div \frac{1}{2}$
- $\frac{5}{6} - \frac{9}{16} + \frac{3}{4} \div 3$
- $\frac{4}{7} \times \frac{9}{16} - \frac{3}{4} + 2$
- $\left(\frac{7}{8} + \frac{3}{4}\right) \div \frac{1}{2} \times 1\frac{3}{4}$
- $-\frac{3}{4} - \frac{5}{6} + \left(\frac{-3}{4}\right) - \left(\frac{1}{2} + \frac{1}{4}\right)$
- $-\frac{5}{6} \div \frac{3}{4} \times \frac{5}{7} - \frac{1}{2}$
- $1\frac{1}{2} - 3\frac{1}{4} + 5\frac{1}{6}$
- $1\frac{3}{4} \times \frac{7}{8} - \frac{2}{3}$
- $-\left(1\frac{1}{2} + \frac{1}{4}\right) \div 3 \times 4$

2. Put the following numbers in order from largest to smallest

- $\frac{3}{8}, \frac{5}{16}, \frac{13}{32}, \frac{19}{48}, \frac{23}{64}, \frac{47}{128}$

3. Simplify

- $\frac{-28}{-7} - 2[3(4 - 6) + 5]$
- $\frac{-2}{5} + \frac{1}{-3} \div 11$
- $\left(\frac{-2}{3}\right)^{-3}$
- $5|7 - 9| - |-3| - 2|1 - 4|$
- $3^2 \cdot 5^0$
- $(4^2 - 2^3)^{-2}$
- $(3^4 \cdot 7)^0$
- $3^{-2} + 2^{-2}$
- $7^0 \cdot 3^{-2}$

4. Evaluate if $x = 2$, $y = -3$, and $w = \frac{4}{5}$

- $2y^2z$
- $(z + w)^2$
- $y^2 + 4z$