

Order of Operations with Fractions

Developing: Evaluate each expression.

1) $\frac{1}{2} + 1\frac{3}{5} \div 2\frac{5}{6}$

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

3) $\frac{-1}{3} \times 2\frac{2}{3} \times 2$

4) $\frac{2}{3} \times -1\frac{1}{3} + 1$

5) $\frac{1}{2} \times \frac{-9}{5} \times -2$

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

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

$$8) -1\frac{3}{4} + \frac{1}{6} + \frac{5}{4}$$

$$9) 2\frac{5}{6} \div \frac{-1}{3} - 1\frac{3}{4}$$

$$10) -1\frac{1}{2} \div \left(-1\frac{3}{4} \times 3\frac{1}{5}\right)$$

Proficient: Evaluate each expression.

$$11) -2 + \left(\frac{-2}{3} - 1\frac{2}{3}\right) \div \frac{5}{4}$$

$$12) \frac{-1}{2} \left(-3\frac{2}{5} \times -2 - \frac{4}{5}\right)$$

$$13) \left(-1 - 3\frac{1}{2}\right) \times \frac{-1}{3} \times \frac{1}{3}$$

$$14) \left(\frac{3}{4} \left(-2\frac{1}{3} + 1\frac{3}{5}\right)\right) \div \frac{-1}{2}$$

$$15) \left(2\frac{1}{3} - 1\frac{1}{2}\right)^2 - \frac{1}{2}$$

$$16) 4\frac{1}{2} - \left(3\frac{1}{5} + \frac{1}{2} - 3\right)$$

$$17) \left(\frac{-11}{6} - \frac{3}{2} \times -3\frac{1}{2}\right) \div \frac{-3}{2}$$

$$18) \frac{1}{3} \div \left(\frac{-1}{3} \left(\frac{-1}{4} - -2\frac{3}{5}\right)\right)$$

$$19) 2\frac{1}{3} + 1\frac{2}{3} \div (-2)^3$$

$$20) \left(2\frac{1}{6} - 3\frac{1}{2}\right) \div \left(2 - -1\frac{1}{5}\right)$$

Extending: Evaluate each expression.

$$21) 3\frac{2}{3} \times 2 \times -2\frac{1}{5} \times \frac{-2}{3} \times \frac{3}{4}$$

$$22) -1\frac{1}{6} \times \frac{3}{2} - -2 + 2\frac{3}{5} \times \frac{1}{2}$$

$$23) \left(1\frac{1}{4} - 3 \div \left(5 - \frac{1}{3}\right)\right) \times \frac{-1}{2}$$

$$24) \left(\frac{-3}{2} + \left(\frac{1}{3}\right)^3\right) \div \left(\frac{1}{3} - \frac{5}{3}\right)$$

$$25) \left(\left(\frac{2}{3}\right)^2 - (-1 - -2)\right) \times \frac{-6}{5}$$

$$26) 3\frac{1}{4} \div \frac{-1}{6} - -1\frac{1}{3} - (-1)^3 \times 2\frac{4}{5}$$

$$27) \frac{-1}{4} - -2 + -3\frac{2}{3} \times 1\frac{1}{3} + \frac{3}{2} + 1$$

$$28) -3\frac{1}{5} \times \frac{1}{2} - \left(\frac{-1}{2} - \left(-2 - 1\frac{1}{2}\right)\right) - \frac{2}{3}$$

$$29) 2\frac{1}{2} + \left(1 - 1\frac{1}{2}\right)^2 \div \frac{1}{5} \times 3\frac{1}{2}$$

$$30) \left(6 - 2\frac{1}{4}\right) \div \left(\frac{9}{5} \times \frac{-11}{6}\right) \times 2\frac{2}{5} - 2\frac{1}{6}$$