Order of Operations

Perform the operations in the correct order.

1. $\frac{3}{2}^{(-3)\times(-1)} \times \left(-4-\left(-\frac{7}{6}-3\right)\right) \div \left(-\frac{7}{4}\right)$

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

3. $6 \div \left(\left(3+\left(-\frac{7}{2}\right)-(-1)\right)^3 - \left(-\frac{1}{2}\right)\right) \div 12$

4. $\left(1+(-8)-(2-(-1)) \times \left(-\frac{7}{2}\right)\right) \div \left(-\frac{1}{4}-(-1)\right)$

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

Order of Operations Answers

Perform the operations in the correct order.

1. $\frac{3}{2}^{(-3)\times(-1)} \times \left(-4 - \left(-\frac{7}{6} - 3\right)\right) \div \left(-\frac{7}{4}\right)$
   $= -\frac{9}{28}$

2. $\left(1 \times \left(-\frac{1}{2} - 1\right)^4 + (-11)\right) \times \frac{2}{3} \div \frac{1}{2}$
   $= -\frac{95}{12}$

3. $6 \div \left(\left(3 + \left(-\frac{7}{2}\right) - (-1)\right)^3 - \left(-\frac{1}{2}\right)\right) \div 12$
   $= \frac{4}{5}$

4. $\left(1 + (-8) - (2 - (-1)) \times \left(-\frac{7}{2}\right)\right) \div \left(-\frac{1}{4} - (-1)\right)$
   $= \frac{14}{3}$

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