

Order of Operations (A)

Perform the operations in the correct order.

1. $\left(\frac{5}{2} - 5\right) \times \frac{3}{2} \times \frac{1}{3} \div \left(-\frac{2}{3} - \frac{8}{3}\right)$

2. $\left(-\frac{5}{3}\right) \div \left(\frac{2}{5} \div (-3)\right) \div (-1)^{-2+10}$

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

4. $\frac{11}{6} \times \left((-10 - 1) \times \frac{1}{2} + 4\right) \div 7$

5. $-1 + (-5) \times \frac{8}{5} \times \left(-\frac{7}{4}\right) - 3 \div \frac{7}{3}$

Order of Operations (A) Answers

Perform the operations in the correct order.

$$\begin{aligned} 1. & \left(\frac{5}{2} - 5\right) \times \frac{3}{2} \times \frac{1}{3} \div \left(-\frac{2}{3} - \frac{8}{3}\right) \\ &= \frac{3}{8} \end{aligned}$$

$$\begin{aligned} 2. & \left(-\frac{5}{3}\right) \div \left(\frac{2}{5} \div (-3)\right) \div (-1)^{-2+10} \\ &= \frac{25}{2} \end{aligned}$$

$$\begin{aligned} 3. & \frac{1}{2} \times (-1) \div 2 \times \left(-\frac{12}{5} + 9 - (-5)\right) \\ &= -\frac{29}{10} \end{aligned}$$

$$\begin{aligned} 4. & \frac{11}{6} \times \left((-10 - 1) \times \frac{1}{2} + 4\right) \div 7 \\ &= -\frac{11}{28} \end{aligned}$$

$$\begin{aligned} 5. & -1 + (-5) \times \frac{8}{5} \times \left(-\frac{7}{4}\right) - 3 \div \frac{7}{3} \\ &= \frac{82}{7} \end{aligned}$$

Order of Operations (B)

Perform the operations in the correct order.

1. $\frac{6}{5}^{1-(-8)+(-1)\times\frac{7}{3}\div\frac{1}{3}}$

2. $\frac{6}{5} \times \frac{5}{4} \times \frac{2}{5} \times \left(2 + \frac{9}{2}\right) - 1$

3. $(2^6)^1 - 3^{-\frac{5}{3}-(-\frac{11}{3})}$

4. $\left(1 \div \frac{5}{2}\right)^2 - \frac{7}{2} \div \left(\frac{10}{3} \times \left(-\frac{3}{4}\right)\right)$

5. $(-4) \times 4 \div \left(\frac{11}{3} \div \left(-\frac{7}{4}\right)\right) + \left(-\frac{2}{3}\right) - 4$

Order of Operations (B) Answers

Perform the operations in the correct order.

$$\begin{aligned} 1. \quad & \frac{6}{5}^{1-(-8)+(-1)\times\frac{7}{3}\div\frac{1}{3}} \\ & = \frac{36}{25} \end{aligned}$$

$$\begin{aligned} 2. \quad & \frac{6}{5} \times \frac{5}{4} \times \frac{2}{3} \times \left(2 + \frac{9}{2}\right) - 1 \\ & = \frac{29}{10} \end{aligned}$$

$$\begin{aligned} 3. \quad & (2^6)^1 - 3^{-\frac{5}{3}} - \left(-\frac{11}{3}\right) \\ & = 55 \end{aligned}$$

$$\begin{aligned} 4. \quad & \left(1 \div \frac{5}{2}\right)^2 - \frac{7}{2} \div \left(\frac{10}{3} \times \left(-\frac{3}{4}\right)\right) \\ & = \frac{39}{25} \end{aligned}$$

$$\begin{aligned} 5. \quad & (-4) \times 4 \div \left(\frac{11}{3} \div \left(-\frac{7}{4}\right)\right) + \left(-\frac{2}{3}\right) - 4 \\ & = \frac{98}{33} \end{aligned}$$

Order of Operations (C)

Perform the operations in the correct order.

1. $\frac{7}{2} \times 1 \times (-1) \times 1 \times (-3) \div \left(-\frac{11}{3}\right)$

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

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

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

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

Order of Operations (C) Answers

Perform the operations in the correct order.

$$\begin{aligned} 1. \quad & \frac{7}{2} \times 1 \times (-1) \times 1 \times (-3) \div \left(-\frac{11}{3}\right) \\ &= -\frac{63}{22} \end{aligned}$$

$$\begin{aligned} 2. \quad & \left(\frac{2}{3} \div 1 \div 4 + \left(-\frac{1}{2}\right)\right) \times (-8) \times \frac{6}{5} \\ &= \frac{16}{5} \end{aligned}$$

$$\begin{aligned} 3. \quad & \left(-\frac{4}{3}\right)^{\left(-\frac{3}{2}\right) \div \left(-\frac{3}{4}\right)} + \left(\frac{1}{2} \times 1\right)^2 \\ &= \frac{73}{36} \end{aligned}$$

$$\begin{aligned} 4. \quad & \left(-\frac{1}{2}\right) \div 1 - \left(3 - \left(-\frac{7}{6}\right)\right) - \left(1 - \frac{5}{6}\right) \\ &= -\frac{29}{6} \end{aligned}$$

$$\begin{aligned} 5. \quad & (-5 + 2) \times \left((-1)^3\right)^4 - \left(-\frac{1}{2}\right) \\ &= -\frac{5}{2} \end{aligned}$$

Order of Operations (D)

Perform the operations in the correct order.

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

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

3. $\frac{5}{6} + 2 \times 5 - \left(-1 + \frac{2}{3} \right) + \left(-\frac{9}{2} \right)$

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

5. $\frac{5}{3}^{(-1)^3 + 1} + (-4) - \frac{7}{3}$

Order of Operations (D) Answers

Perform the operations in the correct order.

$$\begin{aligned} 1. \quad & \frac{7}{4} - \left(\left(-\frac{3}{2} \right) \div (-1)^4 \right)^{(-2)^2} \\ & = -\frac{53}{16} \end{aligned}$$

$$\begin{aligned} 2. \quad & \left(\frac{4}{5} - \frac{1}{3} \times 3 - (-4 - 2) \right) \times (-1) \\ & = -\frac{29}{5} \end{aligned}$$

$$\begin{aligned} 3. \quad & \frac{5}{6} + 2 \times 5 - \left(-1 + \frac{2}{3} \right) + \left(-\frac{9}{2} \right) \\ & = \frac{20}{3} \end{aligned}$$

$$\begin{aligned} 4. \quad & (-1)^{\left(-\frac{4}{3} \right) \times (1 + (-6)) + 4 \times \frac{7}{3}} \\ & = 1 \end{aligned}$$

$$\begin{aligned} 5. \quad & \frac{5}{3}^{(-1)^3 + 1} + (-4) - \frac{7}{3} \\ & = -\frac{16}{3} \end{aligned}$$

Order of Operations (E)

Perform the operations in the correct order.

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

2. $2 \times \left(-\frac{7}{3}\right) - (-1 + (-4) - (1 - 12))$

3. $\frac{8}{3} \times \left(\frac{7^2}{2} - \left(-\frac{3}{2}\right)\right) \div ((-3) \div \frac{4}{5})$

4. $-\frac{9}{2} + \left(-\frac{1}{2}\right) \div \frac{2}{3} + 2 - (-4) \div (-5)$

5. $(-1)^8 \div \left(-\frac{7}{4}\right) \div \left(1 \div \left(\frac{1}{6} - \frac{7}{4}\right)\right)$

Order of Operations (E) Answers

Perform the operations in the correct order.

$$1. 2^{-\frac{1}{2} - \frac{5}{4}} + \left(-\frac{3}{2}\right)^4$$
$$= 8$$

$$2. 2 \times \left(-\frac{7}{3}\right) - (-1 + (-4) - (1 - 12))$$
$$= -\frac{32}{3}$$

$$3. \frac{8}{3} \times \left(\frac{7^2}{2} - \left(-\frac{3}{2}\right)\right) \div ((-3) \div \frac{4}{5})$$
$$= -\frac{88}{9}$$

$$4. -\frac{9}{2} + \left(-\frac{1}{2}\right) \div \frac{2}{3} + 2 - (-4) \div (-5)$$
$$= -\frac{81}{20}$$

$$5. (-1)^8 \div \left(-\frac{7}{4}\right) \div \left(1 \div \left(\frac{1}{6} - \frac{7}{4}\right)\right)$$
$$= \frac{19}{21}$$

Order of Operations (F)

Perform the operations in the correct order.

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

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

3. $\left((-8) \div (-2) \right)^{5+(-2)} - (-1)^2$

4. $\left(\frac{7}{4} - 2 \times \frac{3}{4} \right) \times \frac{5}{2} \times \frac{5}{6} \times 8$

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

Order of Operations (F) Answers

Perform the operations in the correct order.

$$\begin{aligned} 1. & -\frac{1}{4} - \left(\left(-\frac{8}{3} \right) \div \left(-1 - \left(-3 + \frac{3}{2} \right) \right) - (-8) \right) \\ & = -\frac{35}{12} \end{aligned}$$

$$\begin{aligned} 2. & \left(-\frac{4}{3} \right) \div (-1)^2 - \left(\left(-\frac{2}{5} \right) \times \left(-\frac{5}{2} \right) \right)^2 \\ & = -\frac{7}{3} \end{aligned}$$

$$\begin{aligned} 3. & \left((-8) \div (-2) \right)^{5+(-2)} - (-1)^2 \\ & = 63 \end{aligned}$$

$$\begin{aligned} 4. & \left(\frac{7}{4} - 2 \times \frac{3}{4} \right) \times \frac{5}{2} \times \frac{5}{6} \times 8 \\ & = \frac{25}{6} \end{aligned}$$

$$\begin{aligned} 5. & \left(\frac{10}{3} \div \left(-\frac{9}{4} \right) \div \left(-\frac{2}{3} \right) \right)^1 \times \left(-1 + \left(-\frac{1}{5} \right) \right) \\ & = -\frac{8}{3} \end{aligned}$$

Order of Operations (G)

Perform the operations in the correct order.

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

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

3. $\left(-\frac{8}{3}\right) \times (-6)^{(-1)^{\frac{5}{3} - \left(-\frac{4}{3}\right)} - (-3)}$

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

5. $(-2) \times \left(-\frac{3}{2} + 6 - (-11) + \left(-\frac{9}{2}\right) + (-3)\right)$

Order of Operations (G) Answers

Perform the operations in the correct order.

$$\begin{aligned} 1. & \left((-1) \times \left(-\frac{4}{3}\right) \times (-4)^1 \right)^{(-1)^2} \\ &= -\frac{16}{3} \end{aligned}$$

$$\begin{aligned} 2. & 1^2 \times (-3) + (-2) + \left(-\frac{3}{2}\right) - (-2) \\ &= -\frac{9}{2} \end{aligned}$$

$$\begin{aligned} 3. & \left(-\frac{8}{3}\right) \times (-6)^{(-1)^{\frac{5}{3}-\left(-\frac{4}{3}\right)}-(-3)} \\ &= -96 \end{aligned}$$

$$\begin{aligned} 4. & (10 \div 5)^5 \div \left(2 \times \left(-\frac{1}{2}\right)\right)^3 \\ &= -32 \end{aligned}$$

$$\begin{aligned} 5. & (-2) \times \left(-\frac{3}{2} + 6 - (-11) + \left(-\frac{9}{2}\right) + (-3)\right) \\ &= -16 \end{aligned}$$

Order of Operations (H)

Perform the operations in the correct order.

1. $\left(-\frac{1}{2}\right)^2 + \left((-9)^2\right)^{-\frac{1}{3}-\left(-\frac{1}{3}\right)}$

2. $3 \times \left(-\frac{2}{5}\right) \div \left(\left(\frac{4}{5} \div (-2)\right)^2 + \left(-\frac{7}{5}\right)\right)$

3. $3 \div (-1)^3 - \left(-\frac{5}{2} - (-3) \times 9\right)$

4. $((7 - 1) \div ((-4) \times 3))^{\frac{2}{5} \times 5}$

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

Order of Operations (H) Answers

Perform the operations in the correct order.

$$\begin{aligned} 1. & \left(-\frac{1}{2}\right)^2 + \left((-9)^2\right)^{-\frac{1}{3}-\left(-\frac{1}{3}\right)} \\ &= \frac{5}{4} \end{aligned}$$

$$\begin{aligned} 2. & 3 \times \left(-\frac{2}{5}\right) \div \left(\left(\frac{4}{5} \div (-2)\right)^2 + \left(-\frac{7}{5}\right)\right) \\ &= \frac{30}{31} \end{aligned}$$

$$\begin{aligned} 3. & 3 \div (-1)^3 - \left(-\frac{5}{2} - (-3) \times 9\right) \\ &= -\frac{55}{2} \end{aligned}$$

$$\begin{aligned} 4. & ((7-1) \div ((-4) \times 3))^{\frac{2}{5} \times 5} \\ &= \frac{1}{4} \end{aligned}$$

$$\begin{aligned} 5. & (-1)^{\left(\frac{3}{2}-\left(-\frac{6}{5}\right)\right) \times (4+6)} \div \frac{5}{2} \\ &= -\frac{2}{5} \end{aligned}$$

Order of Operations (I)

Perform the operations in the correct order.

1. $\frac{1}{6} \left(\frac{1}{6} - \left(-\frac{4}{3} \right) \right)^{\left(-\frac{9}{2} \right) \times (-2+2)}$

2. $\frac{2}{3} \times 3 \div \left(\left(-\frac{4}{5} \right) \div (-2) \times (-6) \div \frac{12}{5} \right)$

3. $(-2)^{\left(\left(-\frac{11}{6} \right)^{3-3} + (-3) \right) \times (-3)}$

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

5. $-11 + \frac{7}{2} - \left(-\frac{7}{5} \right) + 5 - \left(\frac{11}{4} - 2 \right)$

Order of Operations (I) Answers

Perform the operations in the correct order.

$$\begin{aligned} 1. \quad & \frac{1}{6} \left(\frac{1}{6} - \left(-\frac{4}{3} \right) \right)^{\left(-\frac{9}{2} \right) \times (-2+2)} \\ &= \frac{1}{6} \end{aligned}$$

$$\begin{aligned} 2. \quad & \frac{2}{3} \times 3 \div \left(\left(-\frac{4}{5} \right) \div (-2) \times (-6) \div \frac{12}{5} \right) \\ &= -2 \end{aligned}$$

$$\begin{aligned} 3. \quad & (-2)^{\left(\left(-\frac{11}{6} \right)^{3-3} + (-3) \right) \times (-3)} \\ &= 64 \end{aligned}$$

$$\begin{aligned} 4. \quad & \frac{5}{3} \times \frac{5}{3} \div \left(\frac{3}{2} + \left(-\frac{1}{6} \right) \div \left(2 - \frac{5}{4} \right) \right) \\ &= \frac{50}{23} \end{aligned}$$

$$\begin{aligned} 5. \quad & -11 + \frac{7}{2} - \left(-\frac{7}{5} \right) + 5 - \left(\frac{11}{4} - 2 \right) \\ &= -\frac{37}{20} \end{aligned}$$

Order of Operations (J)

Perform the operations in the correct order.

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

2. $\left(-\frac{9}{5} - \frac{1}{2} \right) \div (-4)^{1-1} \div \left(-\frac{2}{5} \right)$

3. $\left((-2) \times \left(\frac{3^1}{2} + \left(-\frac{6}{5} \right) \right) \right)^2 + \left(-\frac{12}{5} \right)$

4. $3 \times 12 + (-2) + 1 + 2 + 2$

5. $\left((-1)^6 \div (-1)^3 \right)^{3^4}$

Order of Operations (J) Answers

Perform the operations in the correct order.

$$\begin{aligned} 1. & (-1 - 2) \div \frac{3^2}{2} \div \left(\left(-\frac{11}{4} \right) \div (-2) \right) \\ &= -\frac{32}{33} \end{aligned}$$

$$\begin{aligned} 2. & \left(-\frac{9}{5} - \frac{1}{2} \right) \div (-4)^{1-1} \div \left(-\frac{2}{5} \right) \\ &= \frac{23}{4} \end{aligned}$$

$$\begin{aligned} 3. & \left((-2) \times \left(\frac{3^1}{2} + \left(-\frac{6}{5} \right) \right) \right)^2 + \left(-\frac{12}{5} \right) \\ &= -\frac{51}{25} \end{aligned}$$

$$\begin{aligned} 4. & 3 \times 12 + (-2) + 1 + 2 + 2 \\ &= 39 \end{aligned}$$

$$\begin{aligned} 5. & \left((-1)^6 \div (-1)^3 \right)^{3^4} \\ &= -1 \end{aligned}$$