

Order of Operations (A)

Perform the operations in the correct order.

1. $\frac{5}{2} + \frac{7}{2} - \frac{9}{4} \div (9 \times 2^{\frac{4}{3} \times \frac{3}{2}})$

2. $\frac{9}{2} + (\frac{7}{6} - \frac{1}{2}) \div (2 + 1 + 5 + \frac{8}{3})$

3. $4^{\frac{1}{2} + 5 \div \frac{7}{3}} \times 1 \div 3 \times \frac{7}{2}$

4. $4 \div (1^{6 \div 2} + \frac{7}{2} + \frac{1}{2}) \div \frac{8}{5}$

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

Order of Operations (A) Answers

Perform the operations in the correct order.

$$1. \frac{5}{2} + \frac{7}{2} - \frac{9}{4} \div \left(9 \times 2^{\frac{4}{3} \times \frac{3}{2}} \right) \\ = \frac{95}{16}$$

$$2. \frac{9}{2} + \left(\frac{7}{6} - \frac{1}{2} \right) \div \left(2 + 1 + 5 + \frac{8}{3} \right) \\ = \frac{73}{16}$$

$$3. 4^{\frac{1}{2} + 5 \div \frac{7}{3}} \times 1 \div 3 \times \frac{7}{2} \\ = 64$$

$$4. 4 \div \left(1^{6 \div 2} + \frac{7}{2} + \frac{1}{2} \right) \div \frac{8}{5} \\ = \frac{1}{2}$$

$$5. \left(\frac{4}{3} + 2 \right) \div \left(6 \times \left(3 - \frac{2}{3} \right) \times \frac{1}{4} \times 2 \right) \\ = \frac{10}{21}$$

Order of Operations (B)

Perform the operations in the correct order.

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

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

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

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

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

Order of Operations (B) Answers

Perform the operations in the correct order.

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

$$\begin{aligned} 2. & \left(2^3 - \frac{2}{3}\right) \div \left(1^{2^5} \div 3\right) \\ & = 22 \end{aligned}$$

$$\begin{aligned} 3. & \left(1 + (3 - 2)^7\right)^2 \div \left(\frac{1}{2} \div \frac{3}{2}\right) \\ & = 12 \end{aligned}$$

$$\begin{aligned} 4. & \left(\left(\frac{7}{4} - \frac{1}{3}\right) \times \left(\frac{1}{2} - \frac{1}{2}\right)\right)^{(1 \times 4)^2} \\ & = 0 \end{aligned}$$

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

Order of Operations (C)

Perform the operations in the correct order.

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

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

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

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

5. $4 \div 5 + 1 \times \left(12 - \left(\frac{1}{3} + \frac{5}{3}\right)\right)^1$

Order of Operations (C) Answers

Perform the operations in the correct order.

$$1. \left((5 - 2)^{6-4} - 5 \right)^{3 \div 1} \\ = 64$$

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

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

$$4. \left(2^5 + \frac{1}{4} \times (2 \times 2)^3 \right)^1 \\ = 48$$

$$5. 4 \div 5 + 1 \times \left(12 - \left(\frac{1}{3} + \frac{5}{3} \right) \right)^1 \\ = \frac{54}{5}$$

Order of Operations (D)

Perform the operations in the correct order.

1. $(5 - 2 \times \frac{5}{2}) \div (4 \times 6 \div (\frac{11}{2} - 1))$

2. $(3 - 2 \div (8 - (2 + 2)))^{4-2}$

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

4. $(3^2 + 1^7) \times 3 \times \frac{11}{6} \div 7$

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

Order of Operations (D) Answers

Perform the operations in the correct order.

$$1. (5 - 2 \times \frac{5}{2}) \div (4 \times 6 \div (\frac{11}{2} - 1)) \\ = 0$$

$$2. (3 - 2 \div (8 - (2 + 2)))^{4-2} \\ = \frac{25}{4}$$

$$3. 8 \times \frac{5}{4} \times \frac{5}{4} \times (2 - 2) \div (\frac{2}{3} \times \frac{7}{2}) \\ = 0$$

$$4. (3^2 + 1^7) \times 3 \times \frac{11}{6} \div 7 \\ = \frac{55}{7}$$

$$5. 1 \times \frac{10}{3} \times 6 \div (\frac{11}{3} + \frac{9}{2} - \frac{5}{3}) \div 10 \\ = \frac{4}{13}$$

Order of Operations (E)

Perform the operations in the correct order.

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

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

3. $7 + \frac{12}{5} + \frac{2}{5} + \frac{11}{3} \div \frac{1}{3} - 6 \div \frac{5}{4}$

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

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

Order of Operations (E) Answers

Perform the operations in the correct order.

$$1. \left(1 \times \frac{3}{2} - \left(\frac{5}{2} \div \frac{9}{5}\right)^1\right) \div (3 \div 1)$$
$$= \frac{1}{27}$$

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

$$3. 7 + \frac{12}{5} + \frac{2}{5} + \frac{11}{3} \div \frac{1}{3} - 6 \div \frac{5}{4}$$
$$= 16$$

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

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

Order of Operations (F)

Perform the operations in the correct order.

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

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

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

4. $1 + 10 - 5 - (8 \times 1 - 2) \div \frac{7}{4}$

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

Order of Operations (F) Answers

Perform the operations in the correct order.

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

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

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

$$4. 1 + 10 - 5 - (8 \times 1 - 2) \div \frac{7}{4}$$
$$= \frac{18}{7}$$

$$5. 9 \times \frac{1}{5} - 1^1 + 1 - \left(2 - \frac{5}{3}\right)$$
$$= \frac{22}{15}$$

Order of Operations (G)

Perform the operations in the correct order.

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

2. $\frac{3}{2}^{2+1-1} \div \left(7 + 2 - \frac{11}{4}\right)$

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

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

5. $8 - \frac{3}{2} - \frac{1}{4} - \left(7 - 1 \times \frac{11}{3} - \frac{1}{4}\right)$

Order of Operations (G) Answers

Perform the operations in the correct order.

$$1. 6 \div \left(\frac{5}{6} \times 3\right) + 4 \div \left(2 \div \frac{1}{3}\right) - 2$$
$$= \frac{16}{15}$$

$$2. \frac{3^{2+1-1}}{2} \div \left(7 + 2 - \frac{11}{4}\right)$$
$$= \frac{9}{25}$$

$$3. \frac{3}{5} + \left(\frac{11}{2} + 1 - 1\right)^1 - \left(\frac{11}{3} - \frac{1}{2}\right)$$
$$= \frac{44}{15}$$

$$4. 2 \times \left(\frac{10}{3} \div \left(\frac{5}{6} \times 1 \times \left(\frac{1}{2} + \frac{1}{2}\right)\right) - \frac{5}{3}\right)$$
$$= \frac{14}{3}$$

$$5. 8 - \frac{3}{2} - \frac{1}{4} - \left(7 - 1 \times \frac{11}{3} - \frac{1}{4}\right)$$
$$= \frac{19}{6}$$

Order of Operations (H)

Perform the operations in the correct order.

1. $8 \times 4 \div (2 \times 8) \div \left(\frac{4}{5} \times 1\right)^2$

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

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

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

5. $1 \times 2 \times 6 - \left(2 - \frac{11}{6} + \frac{3}{2} - \frac{1}{2}\right)$

Order of Operations (H) Answers

Perform the operations in the correct order.

$$\begin{aligned} 1. & 8 \times 4 \div (2 \times 8) \div \left(\frac{4}{5} \times 1\right)^2 \\ & = \frac{25}{8} \end{aligned}$$

$$\begin{aligned} 2. & \frac{4}{5} + \frac{5}{6} \left(\frac{4}{3} - \frac{4}{3}\right)^{4 \div 2} + 2 \\ & = \frac{19}{5} \end{aligned}$$

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

$$\begin{aligned} 4. & 1 \div \frac{3}{2} \times 12 \div \left(3 \div \left(\frac{1}{3} \div \frac{1}{2} \div 4\right)\right) \\ & = \frac{4}{9} \end{aligned}$$

$$\begin{aligned} 5. & 1 \times 2 \times 6 - \left(2 - \frac{11}{6} + \frac{3}{2} - \frac{1}{2}\right) \\ & = \frac{65}{6} \end{aligned}$$

Order of Operations (I)

Perform the operations in the correct order.

1. $1 \times (2 + 5 - \frac{8}{3}) \times \frac{1}{3}^{\frac{11}{6} - \frac{5}{6}}$

2. $\frac{9}{2} \div \frac{5}{2}^{4 - (1 + (\frac{2}{3} - \frac{1}{2}) \div \frac{1}{6})}$

3. $\frac{3}{2}^{1 \div 1} + ((3 - 1) \div \frac{8}{3})^2$

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

5. $(1 \div (\frac{1}{2} \div (\frac{3}{2} \times \frac{7}{6} \times 2 - 2)))^2$

Order of Operations (I) Answers

Perform the operations in the correct order.

$$1. 1 \times (2 + 5 - \frac{8}{3}) \times \frac{1}{3}^{\frac{11}{6} - \frac{5}{6}}$$
$$= \frac{13}{9}$$

$$2. \frac{9}{2} \div \frac{5}{2}^{4 - (1 + (\frac{2}{3} - \frac{1}{2}) \div \frac{1}{6})}$$
$$= \frac{18}{25}$$

$$3. \frac{3}{2}^{1 \div 1} + ((3 - 1) \div \frac{8}{3})^2$$
$$= \frac{33}{16}$$

$$4. (1 + \frac{5}{6} \times 8) \times \frac{2}{5} \times (3 - 2 \times \frac{1}{2})$$
$$= \frac{92}{15}$$

$$5. (1 \div (\frac{1}{2} \div (\frac{3}{2} \times \frac{7}{6} \times 2 - 2)))^2$$
$$= 9$$

Order of Operations (J)

Perform the operations in the correct order.

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

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

3. $3 \div (1 + \frac{1}{3} + 9 - (\frac{9}{4} + \frac{1}{4}) - \frac{7}{6})$

4. $(1 + 1 \times \frac{11}{5}) \times \frac{5^1}{3} \div \frac{8}{5} + \frac{7}{4}$

5. $(2 \times 2 - 1 \times (9 - 2^3))^2$

Order of Operations (J) Answers

Perform the operations in the correct order.

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

$$2. 8 \div 2 - \frac{3}{4} \times \left(\frac{5}{2} - 2 + 1 - 1\right) \\ = \frac{29}{8}$$

$$3. 3 \div \left(1 + \frac{1}{3} + 9 - \left(\frac{9}{4} + \frac{1}{4}\right) - \frac{7}{6}\right) \\ = \frac{9}{20}$$

$$4. \left(1 + 1 \times \frac{11}{5}\right) \times \frac{5^1}{3} \div \frac{8}{5} + \frac{7}{4} \\ = \frac{61}{12}$$

$$5. \left(2 \times 2 - 1 \times (9 - 2^3)\right)^2 \\ = 9$$