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.

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

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

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

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

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

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

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.

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

2. $\frac{6}{5} \times \frac{5}{4} \times \frac{2}{5} \times \left(2 + \frac{9}{2}\right) - 1$
$= \frac{29}{10}$

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

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

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

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.

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

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

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

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

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

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.

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

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

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

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

5. $\frac{5}{3}^{(-1)^3+1} + (-4) - \frac{7}{3}$
   $= -\frac{16}{3}$

Order of Operations (E)

Perform the operations in the correct order.

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

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

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

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

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

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.

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

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

3. $((-8) \div (-2))^{5+(-2)} - (-1)^2$
$= 63$

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

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

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.

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

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

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

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

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

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.

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

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

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

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

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

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.

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

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

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

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

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

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

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.

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

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

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

4. $3 \times 12 + (-2) + 1 + 2 + 2$
$= 39$

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