Order of Operations (A)

Perform the operations in the correct order.

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

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

2. $4^2 - 3 \times 2 \times \frac{7}{3} \div \frac{7}{6}$

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

3. $\left(\frac{11}{2} \times \frac{5}{3} - \left(\frac{9}{4} + \frac{10}{3}\right)\right)^{16}$

8. $3 \div \frac{3}{2} \times \left(2 - \frac{1}{2} + 11 + \frac{11}{2}\right)$

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

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

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

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

Order of Operations (A) Answers

Perform the operations in the correct order.

1. $\frac{5}{3} \times 3 + 6 \div \frac{3}{2} + 10 - 4$
   $= 15$

2. $4^2 - 3 \times 2 \times \frac{7}{3} \div \frac{7}{6}$
   $= 4$

3. $\left(\frac{11}{2} \times \frac{5}{3} - \left(\frac{9}{4} + \frac{10}{3}\right)\right)^{16}$
   $= \frac{43}{12}$

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

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

6. $\left(2^3 - \left(\frac{1}{2} - 1 \times \frac{1}{2}\right)\right)^2$
   $= 64$

7. $\frac{9}{2} - \left(5 - \left(\frac{8}{3} + 1 - \frac{1}{3}\right)\right) - 1$
   $= \frac{11}{6}$

8. $3 \div \frac{3}{2} \times \left(2 - \frac{1}{2} + 11 + \frac{11}{2}\right)$
   $= 36$

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

10. $(6 - 2) \div \left(11 + 5 - \frac{3}{2}\right) + 1$
    $= \frac{37}{29}$

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Order of Operations (B)

Perform the operations in the correct order.

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

2. $\frac{10}{3} + \left(\frac{11}{2} + 1 \times \frac{9}{2}\right) \div \frac{3}{2}^2$

3. $\frac{1}{2}^{8-3} \times \frac{8}{3}^{1 \times 2}$

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

5. $\left(\frac{11}{2} - \frac{3}{2}\right) \times \frac{2}{5} \div \frac{4}{5} \times \frac{1}{3} \div \frac{10}{3}$

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

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

8. $2^1 \times \frac{3}{2}^3 \div 4 \times \frac{12}{5}$

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

10. $10 \div \left(\frac{7}{6} \div \left(\left(2 - \frac{4}{3} \div 4\right) \div 2\right)\right)$

Order of Operations (B) Answers

Perform the operations in the correct order.

1. $\left(2 - \left(\frac{8}{3} - \frac{4}{3}\right)\right)^{2 \div 1} + 2$
   $= \frac{22}{9}$

2. $\frac{10}{3} + \left(\frac{11}{2} + 1 \times \frac{9}{2}\right) \div \frac{3}{2}^2$
   $= \frac{70}{9}$

3. $\frac{1}{2}^{8-3} \times \frac{8}{3}^{1 \times 2}$
   $= \frac{2}{9}$

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

5. $\left(\frac{11}{2} - \frac{3}{2}\right) \times \frac{2}{5} \div \frac{4}{5} \times \frac{1}{3} \div \frac{10}{3}$
   $= \frac{1}{5}$

6. $\left(\frac{7}{5} - 1\right)^2 \div \frac{6}{5} \times 3 \div 3$
   $= \frac{2}{15}$

7. $12 \times \left(\frac{7}{3}^1 \times \frac{1}{2}\right)^{1 \times 1}$
   $= 14$

8. $2^1 \times \frac{3}{2}^3 \div 4 \times \frac{12}{5}$
   $= \frac{81}{20}$

9. $\frac{5}{2} \times \left(\frac{4}{3} \times 1\right)^2 \div \left(\frac{5}{2} \times \frac{1}{6}\right)$
   $= \frac{32}{3}$

10. $10 \div \left(\frac{7}{6} \div \left(\left(2 - \frac{4}{3} \div 4\right) \div 2\right)\right)$
    $= \frac{50}{7}$

Order of Operations (C)

Perform the operations in the correct order.

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

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

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

4. $10 - 7^2 \div (3 + 1 + 3)$

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

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

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

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

9. $4 \div 2 \div \left(6 \div 2 \div \frac{4}{5}\right) \times \frac{3}{5}$

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

Order of Operations (C) Answers

Perform the operations in the correct order.

1. $\left(2 \times \frac{3}{4} \div \frac{4}{3} \times \frac{2}{3} + \frac{4}{3}\right) \times 1$
$= \frac{25}{12}$

6. $\frac{1}{5} \times \left(4 - \left(\frac{5}{3} - 1\right)\right)^2 \div \frac{1}{3}$
$= \frac{20}{3}$

2. $\frac{10}{3} - \left(1 + \frac{1}{2}\right) - 1 \div \left(2 - \frac{1}{3}\right)$
$= \frac{37}{30}$

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

3. $\left(4 - \frac{3}{2}\right) \times \frac{3}{2} \div \left(1 - \left(4 - \frac{11}{3}\right)\right)$
$= \frac{45}{8}$

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

4. $10 - 7^2 \div (3 + 1 + 3)$
$= 3$

9. $4 \div 2 \div \left(6 \div 2 \div \frac{4}{5}\right) \times \frac{3}{5}$
$= \frac{8}{25}$

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

10. $\frac{9}{4} - \left(\frac{5}{2} - 2\right) + \frac{1}{2} + 5 - \frac{1}{3}$
$= \frac{83}{12}$

Order of Operations (D)

Perform the operations in the correct order.

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

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

3. $\left(\frac{1}{2} + 12\right) \div \frac{10}{3} + 2^{2 \div \frac{2}{3}}$

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

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

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

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

8. $(9 \div 3)^3 - (7 - 5)^3$

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

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

Order of Operations (D) Answers

Perform the operations in the correct order.

1. $(4 - 10 \div 3) \div \left(\frac{3}{2} - \frac{2}{3}\right) \times 6$
   $= \frac{24}{5}$

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

3. $\left(\frac{1}{2} + 12\right) \div \frac{10}{3} + 2^{2 \div \frac{2}{3}}$
   $= \frac{47}{4}$

4. $2^{\left(2^{\frac{5}{3} \times \frac{3}{5}}\right)^2} - \frac{2}{3}$
   $= \frac{46}{3}$

5. $\frac{8}{5}^{\left(\frac{3}{2} - \frac{1}{2} \div (2 \div 3)\right) \times \frac{8}{3}}$
   $= \frac{64}{25}$

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

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

8. $(9 \div 3)^3 - (7 - 5)^3$
   $= 19$

9. $1 \div \left(\frac{5}{2}^2 \div \left(2 \times \frac{1}{6} + 3\right)\right)$
   $= \frac{8}{15}$

10. $\left(\frac{11}{3} - \frac{1}{3} \div 2 \div \frac{1}{2}\right)^2 - 2$
    $= \frac{82}{9}$

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Order of Operations (E)

Perform the operations in the correct order.

1. $\left(2^2\right)^{\left(4-\frac{7}{4}-1\right)\times\frac{12}{5}}$

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

3. $\frac{10}{3}\div5+\frac{1}{2}^2-\left(\frac{3}{2}-\frac{3}{2}\right)$

4. $2^2\times4-\left(\frac{3}{2}+5+\frac{1}{2}\right)$

5. $\left(2^{2^2\times3\times\frac{1}{6}}\right)^1$

6. $\frac{11}{4}-\frac{7}{3}-8\div4^{\frac{1}{2}+\frac{5}{2}}$

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

8. $\frac{1}{3}^2+2\times2-3+\frac{2}{3}$

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

10. $\frac{5}{6}-\frac{4}{5}+1\div\left(\frac{1}{2}\times1\right)-\frac{9}{5}$

Order of Operations (E) Answers

Perform the operations in the correct order.

1. $\left(2^2\right)^{\left(4-\frac{7}{4}-1\right)\times\frac{12}{5}}$
   $= 64$

2. $\frac{5}{2}\times\left(\frac{9}{2}-\frac{1}{2}\right)\times\left(\frac{1}{2}^2\right)^2$
   $= \frac{5}{8}$

3. $\frac{10}{3}\div 5+\frac{1}{2}^2-\left(\frac{3}{2}-\frac{3}{2}\right)$
   $= \frac{11}{12}$

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

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

6. $\frac{11}{4}-\frac{7}{3}-8\div 4^{\frac{1}{2}+\frac{5}{2}}$
   $= \frac{7}{24}$

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

8. $\frac{1}{3}^2+2\times 2-3+\frac{2}{3}$
   $= \frac{16}{9}$

9. $4\div\frac{3}{4}\div\left(\frac{5}{3}-\left(1+\frac{1}{2}\right)+\frac{3}{4}\right)$
   $= \frac{64}{11}$

10. $\frac{5}{6}-\frac{4}{5}+1\div\left(\frac{1}{2}\times 1\right)-\frac{9}{5}$
    $= \frac{7}{30}$

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Order of Operations (F)

Perform the operations in the correct order.

1. $\frac{9}{2} - \left(\frac{11}{5} - \left(1 - 1 + \frac{9}{5} \right) \right) \times \frac{5}{3}$

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

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

4. $4^{2^4 \times (1 \div 4)^2}$

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

6. $\frac{7}{6} \times \left(10 - \left(\frac{6}{5} \times \frac{5}{4} \div \frac{1}{4} - \frac{3}{2} \right) \right)$

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

8. $\frac{1}{4} \times 4 \div 3 \times 6 \times \frac{6}{5} \div \frac{1}{2}$

9. $\frac{3}{2} - \left(\frac{1}{3} \div \frac{7}{6} \times \left(\frac{8}{3} - \frac{3}{2} \right) \right)^2$

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

Order of Operations (F) Answers

Perform the operations in the correct order.

1. $\frac{9}{2} - \left(\frac{11}{5} - \left(1 - 1 + \frac{9}{5}\right)\right) \times \frac{5}{3}$
   $= \frac{23}{6}$

2. $\frac{5}{2} \div \left(\frac{9}{2} - 2\right) + \frac{4}{5} \times 4 \div 1$
   $= \frac{21}{5}$

3. $\frac{5}{6}^2 + 1 \times \frac{3}{2} - (1 - 1)$
   $= \frac{79}{36}$

4. $4^{2^4 \times (1 \div 4)^2}$
   $= 4$

5. $\left(\frac{5}{3} - 1 + 1\right) \times \frac{7}{4} \times \frac{2}{3} \div \frac{1}{4}$
   $= \frac{70}{9}$

6. $\frac{7}{6} \times \left(10 - \left(\frac{6}{5} \times \frac{5}{4} \div \frac{1}{4} - \frac{3}{2}\right)\right)$
   $= \frac{77}{12}$

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

8. $\frac{1}{4} \times 4 \div 3 \times 6 \times \frac{6}{5} \div \frac{1}{2}$
   $= \frac{24}{5}$

9. $\frac{3}{2} - \left(\frac{1}{3} \div \frac{7}{6} \times \left(\frac{8}{3} - \frac{3}{2}\right)\right)^2$
   $= \frac{25}{18}$

10. $\left(2 + \frac{3}{2}\right) \times \frac{1}{2} \times \left(\frac{1}{2} \div 1\right)^3$
    $= \frac{7}{32}$

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Order of Operations (G)

Perform the operations in the correct order.

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

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

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

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

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

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

7. $3 \times 1^{(3 \times 1)^3 \times 2}$

8. $\left(\frac{7}{6} - \left(\frac{3}{2} \times \frac{2}{3}^1\right)^5\right) \times \frac{12}{5}$

9. $\left((4 - 2)^{3-1}\right)^{12 \div 4}$

10. $\left(\frac{9}{2} \times \left(\frac{5}{2} - \frac{1}{2}\right) - 7\right)^{6-2}$

Order of Operations (G) Answers

Perform the operations in the correct order.

1. $\frac{1}{3} \times 5 \times \left(\frac{1}{6} + 2 \div 1\right) \times 3$
$= \frac{65}{6}$

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

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

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

5. $(1 - 1) \div \left(1 \div \frac{4}{5} \times 1 \div \frac{7}{3}\right)$
$= 0$

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

7. $3 \times 1^{(3 \times 1)^3 \times 2}$
$= 3$

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

9. $\left((4 - 2)^{3-1}\right)^{12 \div 4}$
$= 64$

10. $\left(\frac{9}{2} \times \left(\frac{5}{2} - \frac{1}{2}\right) - 7\right)^{6-2}$
$= 16$

Order of Operations (H)

Perform the operations in the correct order.

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

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

2. $3\times2^4\times\frac{6}{5}\times\frac{1}{3}\times\frac{3}{4}$

7. $\frac{1}{2}\div\left(\frac{4}{3}-3\times1\frac{\frac{1}{2}+\frac{3}{2}}{3}\right)$

3. $9\times3\div\left(7\times\frac{3}{2}\times3\right)\times\frac{1}{2}$

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

4. $9\div\frac{1}{2}-3\div\frac{3}{2}\div2^2$

9. $\left(\frac{9}{5}+\left(\frac{2}{5}+2\right)\div\frac{5}{3}\right)\times1\div1$

5. $\frac{3}{2}^3+\frac{7}{2}\div1\frac{7}{2}\times8$

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

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Order of Operations (H) Answers

Perform the operations in the correct order.

1. $\frac{7}{2} + \frac{1}{2} + \frac{11}{2} + \frac{5}{2} - \left(\frac{8}{3} + 5\right)$
   $= \frac{13}{3}$

2. $3 \times 2^4 \times \frac{6}{5} \times \frac{1}{3} \times \frac{3}{4}$
   $= \frac{72}{5}$

3. $9 \times 3 \div \left(7 \times \frac{3}{2} \times 3\right) \times \frac{1}{2}$
   $= \frac{3}{7}$

4. $9 \div \frac{1}{2} - 3 \div \frac{3}{2} \div 2^2$
   $= \frac{35}{2}$

5. $\frac{3}{2}^3 + \frac{7}{2} \div 1\frac{7}{2} \times 8$
   $= \frac{55}{8}$

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

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

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

9. $\left(\frac{9}{5} + \left(\frac{2}{5} + 2\right) \div \frac{5}{3}\right) \times 1 \div 1$
   $= \frac{81}{25}$

10. $\left(\frac{3}{2}^{\left(\frac{5}{3} - \frac{4}{3}\right) \div \frac{1}{6}}\right)^{\frac{10}{3} - \frac{4}{3}}$
    $= \frac{81}{16}$

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Order of Operations (I)

Perform the operations in the correct order.

1. $\left(1^{2+9} \div \frac{5}{2}\right)^{\frac{5}{6} \times \frac{12}{5}}$

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

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

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

3. $\frac{7}{6} + 2 + \frac{3}{2} - \frac{2}{3} + \frac{8}{5} + 3$

8. $\left(5 \div 3 - \left(\frac{7}{6} + \frac{5}{4} - \frac{5}{4}\right)\right)^3$

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

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

5. $5^{2 \div 1} + 10 \div 2 \times 12$

10. $2^{\frac{5}{6} \times 1^3} \times \left(2 + \frac{8}{5}\right)$

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Order of Operations (I) Answers

Perform the operations in the correct order.

1. $\left(12^{2+9} \div \frac{5}{2}\right)^{\frac{5}{6} \times \frac{12}{5}}$
   $= \frac{4}{25}$

2. $\left(\frac{7}{3} - \frac{1}{3}\right)^{12 \div 2} \div \frac{2}{3} - 3$
   $= 93$

3. $\frac{7}{6} + 2 + \frac{3}{2} - \frac{2}{3} + \frac{8}{5} + 3$
   $= \frac{43}{5}$

4. $\left(\frac{5}{4} \div \frac{1}{3} - \left(1 + \frac{1}{4}\right)\right) \times \left(9 + \frac{2}{5}\right)$
   $= \frac{47}{2}$

5. $5^{2 \div 1} + 10 \div 2 \times 12$
   $= 85$

6. $\left(\frac{7}{2} - \frac{1}{6}\right) \div \left(\left(\frac{7}{3} + \frac{7}{5}\right) \div \left(12 \times \frac{2}{5}\right)\right)$
   $= \frac{30}{7}$

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

8. $\left(5 \div 3 - \left(\frac{7}{6} + \frac{5}{4} - \frac{5}{4}\right)\right)^3$
   $= \frac{1}{8}$

9. $2^3 - \left(1 - \frac{1}{2}\right) - \frac{5}{3} \div 6$
   $= \frac{65}{9}$

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

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Order of Operations (J)

Perform the operations in the correct order.

1. $(12 - 4 \div 2 \times 4)^2 \div 2$

2. $2^{6 \times \frac{2}{3} + 1^{3+2}}$

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

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

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

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

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

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

9. $\left(3 + \frac{11}{2}\right) \div (8 + 2) + 3 \div \frac{5}{4}$

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

Order of Operations (J) Answers

Perform the operations in the correct order.

1. $(12 - 4 \div 2 \times 4)^2 \div 2$
   $= 8$

2. $2^{6 \times \frac{2}{3} + 1^{3+2}}$
   $= 32$

3. $\left(\frac{2}{3} + 2 \div \frac{9}{2}\right) \div \left(\frac{5}{2} \div \frac{5}{2}\right)^3$
   $= \frac{10}{9}$

4. $\frac{5}{3} \times \left(\frac{7}{6} + \left(1 - \frac{1}{6}\right)^1\right)^2$
   $= \frac{20}{3}$

5. $\frac{2}{3} \div \left(\frac{5}{3} - \frac{1}{3}\right) + \frac{1}{3} \div \left(\frac{2}{5} \div \frac{1}{2}\right)$
   $= \frac{11}{12}$

6. $2 + 6 \div \left(\left(3^1\right)^2 - \frac{5}{4}\right)$
   $= \frac{86}{31}$

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

8. $5 \times \left(\frac{11^{\frac{1}{4} \times 4}}{3} - (2 - 2)\right)$
   $= \frac{55}{3}$

9. $\left(3 + \frac{11}{2}\right) \div (8 + 2) + 3 \div \frac{5}{4}$
   $= \frac{13}{4}$

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

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