Advanced Order of Operations Problem Set 2

Simplify each problem to a single number or fraction (in simplest form).

1. $3^2 - \sqrt{16} + \frac{5}{6} \div \frac{2}{3}$

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

3. $\left(\frac{3}{4} \times \frac{5}{6}\right) \div \frac{7}{8} + \frac{2}{5} - \sqrt{9}$

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

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

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

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

8. $\left(\frac{3}{4} + \frac{5}{6}\right) \times \frac{1}{2} - \frac{3}{8} \div \sqrt{9}$

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

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

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

12. $\left(\frac{3}{4} - \frac{5}{6}\right) \times \frac{1}{2} + \frac{3}{8} \div \sqrt{9}$

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

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

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

16. $\left(\frac{3}{4} - \frac{5}{6}\right) \times \frac{1}{2} + \frac{3}{8} \div \sqrt{9}$

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

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

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

20. $\left(\frac{3}{4} - \frac{5}{6}\right) \times \frac{1}{2} + \frac{3}{8} \div \sqrt{9}$