

Order of Operations – Fractions

Simplify.

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

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

3. $\frac{4}{3} - \frac{1}{2} + \frac{7}{12}$

4. $\frac{1}{2} \cdot \frac{4}{5} + \frac{2}{3} \cdot \frac{9}{5}$

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

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

7. $\left(\frac{8}{7} - \frac{9}{14}\right) \div \frac{3}{7}$

8. $\left(\frac{3}{4}\right)^2 + \frac{1}{3} \cdot \frac{9}{8}$

9. $\left(\frac{2}{5}\right)^2 \div \left(\frac{3}{5} - \frac{11}{25}\right)$

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

11. $\left(\frac{3}{5}\right)^2 \cdot \left(\frac{3}{2} - \frac{5}{8}\right) - \frac{1}{21} \cdot \frac{3}{4}$

Answers: 1. $\frac{8}{3}$ 2. $\frac{8}{75}$ 3. $\frac{17}{12}$ 4. $\frac{8}{5}$ 5. $\frac{5}{9}$ 6. $\frac{1}{4}$ 7. $\frac{7}{6}$ 8. $\frac{15}{16}$ 9. 1

10. $\frac{1}{81}$ 11. $\frac{391}{1400}$