

Multiplying and Dividing Fractions (J)

Find the value of each expression in lowest terms.

1. $\frac{4}{3} \div \left(\frac{19}{12} \div \frac{15}{8} \right)$

6. $\frac{7}{5} \times \frac{11}{2} \div \frac{1}{2}$

11. $\frac{20}{11} \times \frac{1}{5} \times \frac{3}{2}$

2. $\frac{21}{5} \times \frac{5}{4} \div \frac{1}{6}$

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

12. $\frac{3}{2} \div \left(\frac{21}{5} \div \frac{11}{10} \right)$

3. $\frac{3}{4} \times \frac{11}{5} \times \frac{6}{11}$

8. $\frac{3}{7} \times \frac{5}{6} \times \frac{20}{7}$

13. $\frac{1}{2} \times \frac{8}{3} \times \frac{2}{3}$

4. $\frac{19}{5} \div \frac{3}{4} \div \frac{1}{5}$

9. $\frac{1}{6} \div \left(\frac{3}{5} \times \frac{19}{9} \right)$

14. $\frac{1}{10} \times \frac{1}{2} \times \frac{15}{7}$

5. $\frac{1}{3} \div \left(\frac{8}{7} \times \frac{7}{12} \right)$

10. $\frac{1}{5} \div \left(\frac{3}{11} \times \frac{22}{9} \right)$

15. $\frac{13}{5} \div \frac{8}{5} \times \frac{1}{3}$

Multiplying and Dividing Fractions (J) Answers

Find the value of each expression in lowest terms.

$$\begin{aligned} 1. \quad & \frac{4}{3} \div \left(\frac{19}{12} \div \frac{15}{8} \right) \\ & = \frac{30}{19} = 1\frac{11}{19} \end{aligned}$$

$$\begin{aligned} 6. \quad & \frac{7}{5} \times \frac{11}{2} \div \frac{1}{2} \\ & = \frac{77}{5} = 15\frac{2}{5} \end{aligned}$$

$$\begin{aligned} 11. \quad & \frac{20}{11} \times \frac{1}{5} \times \frac{3}{2} \\ & = \frac{6}{11} \end{aligned}$$

$$\begin{aligned} 2. \quad & \frac{21}{5} \times \frac{5}{4} \div \frac{1}{6} \\ & = \frac{63}{2} = 31\frac{1}{2} \end{aligned}$$

$$\begin{aligned} 7. \quad & \frac{7}{6} \div \left(\frac{7}{6} \times \frac{2}{3} \right) \\ & = \frac{3}{2} = 1\frac{1}{2} \end{aligned}$$

$$\begin{aligned} 12. \quad & \frac{3}{2} \div \left(\frac{21}{5} \div \frac{11}{10} \right) \\ & = \frac{11}{28} \end{aligned}$$

$$\begin{aligned} 3. \quad & \frac{3}{4} \times \frac{11}{5} \times \frac{6}{11} \\ & = \frac{9}{10} \end{aligned}$$

$$\begin{aligned} 8. \quad & \frac{3}{7} \times \frac{5}{6} \times \frac{20}{7} \\ & = \frac{50}{49} = 1\frac{1}{49} \end{aligned}$$

$$\begin{aligned} 13. \quad & \frac{1}{2} \times \frac{8}{3} \times \frac{2}{3} \\ & = \frac{8}{9} \end{aligned}$$

$$\begin{aligned} 4. \quad & \frac{19}{5} \div \frac{3}{4} \div \frac{1}{5} \\ & = \frac{76}{3} = 25\frac{1}{3} \end{aligned}$$

$$\begin{aligned} 9. \quad & \frac{1}{6} \div \left(\frac{3}{5} \times \frac{19}{9} \right) \\ & = \frac{5}{38} \end{aligned}$$

$$\begin{aligned} 14. \quad & \frac{1}{10} \times \frac{1}{2} \times \frac{15}{7} \\ & = \frac{3}{28} \end{aligned}$$

$$\begin{aligned} 5. \quad & \frac{1}{3} \div \left(\frac{8}{7} \times \frac{7}{12} \right) \\ & = \frac{1}{2} \end{aligned}$$

$$\begin{aligned} 10. \quad & \frac{1}{5} \div \left(\frac{3}{11} \times \frac{22}{9} \right) \\ & = \frac{3}{10} \end{aligned}$$

$$\begin{aligned} 15. \quad & \frac{13}{5} \div \frac{8}{5} \times \frac{1}{3} \\ & = \frac{13}{24} \end{aligned}$$