

Triple Fractions Worksheet

1. Simplify the expression: $\frac{2}{3} \div \frac{4}{5} \div \frac{1}{2}$

2. Calculate: $\frac{7}{8} \times \frac{3}{5} \times \frac{10}{21}$

3. Evaluate: $\left(\frac{9}{10} \div \frac{3}{4}\right) \times \frac{2}{3}$

4. Simplify the following: $\frac{5}{6} \div \frac{15}{16} \times \frac{8}{9}$

5. Calculate: $\frac{3}{7} \div \frac{2}{5} \times \frac{4}{9}$

6. Find the value of: $\frac{12}{25} \times \frac{5}{6} \div \frac{2}{3}$

7. Simplify: $\frac{11}{12} \div \frac{22}{15} \times \frac{5}{11}$

8. Evaluate: $\left(\frac{8}{9} \times \frac{3}{4}\right) \div \frac{2}{3}$

9. Calculate: $\frac{7}{18} \div \frac{14}{27} \times \frac{9}{14}$

10. Simplify the expression: $\frac{4}{5} \times \frac{15}{16} \div \frac{3}{8}$

Maths with Melissa

Answer Key

$$1. \quad \frac{2}{3} \div \frac{4}{5} \div \frac{1}{2} = \frac{2}{3} \times \frac{5}{4} \times 2 = \frac{2}{3} \times \frac{5}{2} = \frac{5}{3}$$

$$2. \quad \frac{7}{8} \times \frac{3}{5} \times \frac{10}{21} = \frac{7 \times 3 \times 10}{8 \times 5 \times 21} = \frac{210}{840} = \frac{1}{4}$$

$$3. \quad \left(\frac{9}{10} \div \frac{3}{4} \right) \times \frac{2}{3} = \frac{9}{10} \times \frac{4}{3} \times \frac{2}{3} = \frac{9 \times 4 \times 2}{10 \times 3 \times 3} = \frac{72}{90} = \frac{4}{5}$$

$$4. \quad \frac{5}{6} \div \frac{15}{16} \times \frac{8}{9} = \frac{5}{6} \times \frac{16}{15} \times \frac{8}{9} = \frac{5 \times 16 \times 8}{6 \times 15 \times 9} = \frac{640}{810} = \frac{32}{81}$$

$$5. \quad \frac{3}{7} \div \frac{2}{5} \times \frac{4}{9} = \frac{3}{7} \times \frac{5}{2} \times \frac{4}{9} = \frac{3 \times 5 \times 4}{7 \times 2 \times 9} = \frac{60}{126} = \frac{10}{21}$$

$$6. \quad \frac{12}{25} \times \frac{5}{6} \div \frac{2}{3} = \frac{12}{25} \times \frac{5}{6} \times \frac{3}{2} = \frac{12 \times 5 \times 3}{25 \times 6 \times 2} = \frac{180}{300} = \frac{3}{5}$$

$$7. \quad \frac{11}{12} \div \frac{22}{15} \times \frac{5}{11} = \frac{11}{12} \times \frac{15}{22} \times \frac{5}{11} = \frac{11 \times 15 \times 5}{12 \times 22 \times 11} = \frac{75}{264}$$

$$8. \quad \left(\frac{8}{9} \times \frac{3}{4} \right) \div \frac{2}{3} = \frac{8}{9} \times \frac{3}{4} \times \frac{3}{2} = \frac{8 \times 3 \times 3}{9 \times 4 \times 2} = \frac{72}{72} = 1$$

$$9. \quad \frac{7}{18} \div \frac{14}{27} \times \frac{9}{14} = \frac{7}{18} \times \frac{27}{14} \times \frac{9}{14} = \frac{7 \times 27 \times 9}{18 \times 14 \times 14} = \frac{1701}{3528} = \frac{81}{168} = \frac{27}{56}$$

$$10. \quad \frac{4}{5} \times \frac{15}{16} \div \frac{3}{8} = \frac{4}{5} \times \frac{15}{16} \times \frac{8}{3} = \frac{4 \times 15 \times 8}{5 \times 16 \times 3} = \frac{480}{240} = 2$$