

### Multistep Fractions Worksheet

Solve each of the following problems involving multistep operations with fractions. Show your working for each step.

1. Evaluate:  $\frac{2}{3} + \frac{5}{6} - \frac{1}{2}$

2. Calculate:  $\frac{3}{4} \times \left(\frac{2}{5} + \frac{1}{10}\right)$

3. Simplify:  $\left(\frac{7}{8} - \frac{1}{4}\right) \div \frac{3}{16}$

4. Find the value of:  $\frac{5}{9} + \frac{2}{3} \times \frac{3}{4}$

5. Solve for  $x$ : If  $x = \frac{2}{5}$  and  $y = \frac{3}{7}$ , what is  $x + y - \frac{1}{2}$ ?

6. Evaluate:  $\frac{3}{5} \div \frac{6}{25} - \frac{1}{2}$

7. Calculate:  $\left(\frac{4}{9} + \frac{5}{18}\right) \times \frac{3}{7}$

8. Simplify:  $\frac{2}{3} + \frac{1}{2} \div \frac{5}{6}$

9. Find:  $\frac{7}{12} - \left(\frac{1}{3} + \frac{1}{4}\right)$

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

## Answer Key

$$1. \quad \frac{2}{3} + \frac{5}{6} - \frac{1}{2} = 1$$

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

$$3. \quad \left( \frac{7}{8} - \frac{1}{4} \right) \div \frac{3}{16} = \frac{10}{3}$$

$$4. \quad \frac{5}{9} + \frac{2}{3} \times \frac{3}{4} = \frac{19}{18} \text{ or } 1 \frac{1}{18}$$

$$5. \quad x + y - \frac{1}{2} = \frac{2}{5} + \frac{3}{7} - \frac{1}{2} = \frac{23}{70}$$

$$6. \quad \frac{3}{5} \div \frac{6}{25} - \frac{1}{2} = 2 - \frac{1}{2} = \frac{3}{2}$$

$$7. \quad \left( \frac{4}{9} + \frac{5}{18} \right) \times \frac{3}{7} = \frac{1}{2} \times \frac{3}{7} = \frac{3}{14}$$

$$8. \quad \frac{2}{3} + \frac{1}{2} \div \frac{5}{6} = \frac{2}{3} + \frac{3}{5} = \frac{19}{15}$$

$$9. \quad \frac{7}{12} - \left( \frac{1}{3} + \frac{1}{4} \right) = \frac{7}{12} - \frac{7}{12} = 0$$

## Maths with Melissa

$$10. \left(\frac{5}{6} - \frac{1}{3}\right) \div \frac{2}{9} = \frac{1}{2} \div \frac{2}{9} = \frac{9}{4}$$