

$$1. \text{ Add: } 3\frac{1}{9} + 3\frac{3}{4} = \frac{28}{9} + \frac{15}{4} = \frac{28 \times 4 + 15 \times 9}{36} = \frac{112 + 135}{36} = \frac{247}{36} = 6\frac{31}{36}$$

$$2. \text{ Subtract: } -\frac{4}{5} - (-\frac{3}{5}) = -\frac{4}{5} + \frac{3}{5} = \frac{-4+3}{5} = -\frac{1}{5}$$

$$3. \text{ Multiply: } \frac{1}{9} \times 3\frac{3}{4} = \frac{1}{9} \times \frac{15}{4} = \frac{\cancel{3} \cdot 5}{\cancel{3} \cdot 3 \cdot 4} = \frac{5}{12}$$

$$4. \text{ Divide: } \frac{-1}{5} \div 8 = \frac{-1}{5} \times \frac{1}{8} = -\frac{1}{40}$$

$$\text{Add: } \frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

Hint: Choose numbers for each variable to see how to solve the problem. Write your final answer in terms of a, b, and c.

$$\text{Subtract: } \frac{w}{x} - \frac{y}{z} = \frac{wz - yx}{xz}$$

Hint: Choose numbers for each variable to see how to solve the problem. Write your final answer in terms of w, x, y and z.

$$\text{Multiply: } \frac{q}{r} \times \frac{s}{t} = \frac{qs}{rt}$$

Hint: Choose numbers for each variable to see how to solve the problem. Write your final answer in terms of q, r, s, and t.

$$\text{Divide: } \frac{q}{r} \div \frac{s}{t} = \frac{q}{r} \times \frac{t}{s} = \frac{qt}{rs}$$

Hint: Choose numbers for each variable to see how to solve the problem. Write your final answer in terms of q, r, s, and t.