

Worksheet 2 Like and unlike fractions

1. Add the following fractions. Leave the answers in the simplest form.

(a) $\frac{2}{4} + \frac{1}{4} = \boxed{\frac{3}{4}}$

(b) $\frac{1}{5} + \frac{2}{5} = \boxed{\frac{3}{5}}$

(c) $\frac{3}{7} + \frac{1}{7} = \boxed{\frac{4}{7}}$

(d) $\frac{2}{8} + \frac{4}{8} = \boxed{\frac{6}{8}}$

2. Subtract the following fractions. Leave the answers in the simplest form.

(a) $\frac{4}{5} - \frac{2}{5} = \boxed{\frac{2}{5}}$

(b) $\frac{6}{7} - \frac{3}{7} = \boxed{\frac{3}{7}}$

(c) $\frac{3}{5} - \frac{1}{5} = \boxed{\frac{2}{5}}$

(d) $\frac{7}{8} - \frac{3}{8} = \boxed{\frac{4}{8}}$

3. Add these fractions. Leave the answers in the simplest form.

(a) $\frac{2}{3}$ and $\frac{1}{3}$

$$\frac{2}{3} + \frac{1}{3} = \frac{2+1}{3} = \frac{3}{3} = 1$$

(b) $\frac{4}{6}$ and $\frac{1}{6}$

$$\frac{4}{6} + \frac{1}{6} = \frac{4+1}{6} = \frac{5}{6}$$

4. Subtract these fractions. Leave the answers in the simplest form.

(a) $\frac{3}{7}$ from $\frac{7}{7}$

$$\frac{7}{7} - \frac{3}{7} = \frac{7-3}{7} = \frac{4}{7}$$

(b) $\frac{1}{5}$ from $\frac{4}{5}$

$$\frac{4}{5} - \frac{1}{5} = \frac{4-1}{5} = \frac{3}{5}$$

Add the following fractions. Leave the answers in the simplest form.

(a) $\frac{1}{3} + \frac{2}{6}$

$$\frac{1}{3} \times \frac{2}{2} = \frac{2}{6} + \frac{2}{6} = \frac{4}{6} = \frac{2}{3}$$

(b) $\frac{2}{4} + \frac{3}{8}$

$$\frac{2}{4} + \frac{3}{8} = \frac{2 \times 2}{4 \times 2} + \frac{3}{8} = \frac{4}{8} + \frac{3}{8} = \frac{7}{8}$$

(c) $\frac{3}{5} + \frac{1}{15}$

$$\frac{3}{5} + \frac{1}{15} = \frac{3 \times 3}{5 \times 3} + \frac{1}{15} = \frac{9}{15} + \frac{1}{15} = \frac{10}{15} = \frac{2}{3}$$

Subtract the following fractions. Leave the answers in the simplest form.

(a) $\frac{1}{2} - \frac{3}{8}$

$$\frac{1}{2} - \frac{3}{8} = \frac{1 \times 4}{2 \times 4} - \frac{3}{8} = \frac{4}{8} - \frac{3}{8} = \frac{4-3}{8} = \frac{1}{8}$$

(b) $\frac{1}{3} - \frac{1}{6}$

$$\frac{1}{3} - \frac{1}{6} = \frac{1 \times 2}{3 \times 2} - \frac{1}{6} = \frac{2}{6} - \frac{1}{6} = \frac{1}{6}$$

(c) $\frac{3}{4} - \frac{3}{12}$

$$\frac{3}{4} - \frac{3}{12} = \frac{3 \times 3}{4 \times 3} - \frac{3}{12} = \frac{9}{12} - \frac{3}{12} = \frac{6}{12} = \frac{1}{2}$$

Add the following fractions. Leave the answers in the simplest form.

(a) $\frac{2}{3}$ and $\frac{2}{9}$

$$\frac{2}{3} + \frac{2}{9} = \frac{2 \times 3}{3 \times 3} + \frac{2}{9} = \frac{6}{9} + \frac{2}{9} = \frac{6+2}{9} = \frac{8}{9}$$

(b) $\frac{1}{4}$ and $\frac{3}{12}$

$$\frac{1}{4} + \frac{3}{12} = \frac{1 \times 3}{4 \times 3} + \frac{3}{12} = \frac{3}{12} + \frac{3}{12} = \frac{3+3}{12} = \frac{6}{12} = \frac{1}{2}$$

Subtract the following fractions. Leave the answers in the simplest form.

(a) $\frac{1}{6}$ from $\frac{2}{3}$

$$\frac{2}{3} - \frac{1}{6} = \frac{2 \times 2}{3 \times 2} - \frac{1}{6} = \frac{4}{6} - \frac{1}{6} = \frac{4-1}{6} = \frac{3}{6} = \frac{1}{2}$$

(b) $\frac{2}{12}$ from $\frac{3}{4}$

$$\frac{3}{4} - \frac{2}{12} = \frac{3 \times 3}{4 \times 3} - \frac{2}{12} = \frac{9}{12} - \frac{2}{12} = \frac{7}{12}$$