

# Add and Subtract Fractions with the Same Denominator

To add and subtract fractions with the same denominators.



- 1) Add or subtract. Use the fraction bars to help (you may not need all the bars).  
If the answer is an improper fraction, convert to a whole or mixed number.

a)  $\frac{3}{6} + \frac{2}{6} = \square$

b)  $\frac{5}{9} + \frac{7}{9} = \square$

c)  $\frac{6}{7} + \frac{8}{7} = \square$

d)  $\frac{13}{3} - \frac{4}{3} = \square$

e)  $\frac{23}{4} - \frac{5}{4} = \square$

f)  $\frac{21}{8} - \frac{6}{8} = \square$

# Add and Subtract Fractions with the Same Denominator

To add and subtract fractions with the same denominators.



2) Add or subtract. If the answer is an improper fraction, convert to a whole or mixed number.

a)  $\frac{4}{9} + \frac{6}{9} = \square$

b)  $\frac{5}{3} + \frac{2}{3} = \square$

c)  $\frac{13}{4} - \frac{2}{4} = \square$

d)  $\frac{17}{6} - \frac{4}{6} = \square$

3) Fill in the missing numerators

a)  $\frac{5}{8} + \frac{\square}{8} = \frac{11}{8}$

b)  $\frac{7}{9} + \frac{\square}{9} = \frac{15}{9} = 1\frac{6}{9}$

c)  $\frac{12}{5} - \frac{\square}{5} = \frac{2}{5}$

d)  $\frac{14}{4} - \frac{\square}{4} = \frac{9}{4} = 2\frac{\square}{4}$

# Add and Subtract Fractions with the Same Denominator **Answers**

1)

a)  $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

b)  $\frac{5}{9} + \frac{7}{9} = \frac{12}{9} = 1 \frac{3}{9}$  (or  $1\frac{1}{3}$ )

c)  $\frac{6}{7} + \frac{8}{7} = \frac{14}{7} = 2$

d)  $\frac{13}{3} - \frac{4}{3} = \frac{9}{3} = 3$

e)  $\frac{23}{4} - \frac{5}{4} = \frac{18}{4} = 4 \frac{2}{4}$  (or  $4\frac{1}{2}$ )

f)  $\frac{21}{8} - \frac{6}{8} = \frac{15}{8} = 1 \frac{7}{8}$

2)

a)  $\frac{4}{9} + \frac{6}{9} = \frac{10}{9} = 1 \frac{1}{9}$

b)  $\frac{5}{3} + \frac{2}{3} = \frac{7}{3} = 2 \frac{1}{3}$

c)  $\frac{13}{4} - \frac{2}{4} = \frac{11}{4} = 2 \frac{3}{4}$

d)  $\frac{17}{6} - \frac{4}{6} = \frac{13}{6} = 2 \frac{1}{6}$

3)

a)  $\frac{5}{8} + \frac{6}{8} = \frac{11}{8}$

b)  $\frac{7}{9} + \frac{8}{9} = \frac{15}{9} = 1 \frac{6}{9}$

c)  $\frac{12}{5} - \frac{10}{5} = \frac{2}{5}$

d)  $\frac{14}{4} - \frac{5}{4} = \frac{9}{4} = 2 \frac{1}{4}$

# Add and Subtract Fractions with the Same Denominator

To add and subtract fractions with the same denominators.



- 1) If the answer is an improper fraction, convert to a whole or mixed number.  
Draw your own fraction bars to help if you need.

a)  $\frac{5}{8} + \frac{4}{8} = \square$

b)  $\frac{2}{3} + \frac{2}{3} = \square$

c)  $\frac{18}{4} + \frac{3}{4} = \square$

d)  $\frac{9}{5} + \frac{3}{5} = \square$

e)  $\frac{18}{7} - \frac{10}{7} = \square$

f)  $\frac{13}{9} - \frac{11}{9} = \square$

g)  $\frac{15}{4} - \frac{12}{4} = \square$

h)  $\frac{8}{3} - \frac{1}{3} = \square$

i)  $\frac{3}{7} + \frac{5}{7} + \frac{4}{7} = \square$

j)  $\frac{13}{4} + \frac{5}{4} + \frac{7}{4} = \square$

k)  $\frac{11}{5} + \frac{6}{5} - \frac{2}{5} = \square$

l)  $\frac{8}{4} + \frac{3}{4} - \frac{5}{4} = \square$

# Add and Subtract Fractions with the Same Denominator

To add and subtract fractions with the same denominators.



2) Fill in the missing numerators.

$$\text{a) } \frac{5}{7} + \frac{\square}{7} = \frac{13}{7}$$

$$\text{b) } \frac{\square}{10} + \frac{7}{10} = \frac{16}{10} = 1 \frac{6}{10}$$

$$\text{c) } \frac{8}{5} + \frac{\square}{5} + \frac{2}{5} = 3$$

$$\text{d) } \frac{4}{3} + \frac{\square}{3} + \frac{1}{3} = 2 \frac{2}{3}$$

$$\text{e) } \frac{11}{7} - \frac{\square}{7} = \frac{8}{7}$$

$$\text{f) } \frac{\square}{5} - \frac{7}{5} = \frac{13}{5} = 2 \frac{3}{5}$$

$$\text{g) } \frac{19}{8} - \frac{3}{8} - \frac{\square}{8} = 1 \frac{1}{8}$$

$$\text{h) } \frac{22}{10} - \frac{\square}{10} = \frac{\square}{10} = 1 \frac{5}{10}$$

3) Write 3 addition calculations that would make this calculation correct.

$$\frac{\square}{7} + \frac{\square}{7} = \frac{24}{7}$$

a)

b)

c)

4) Write 3 addition calculations that would make this calculation correct.

$$\frac{\square}{6} - \frac{\square}{6} = \frac{13}{6}$$

a)

b)

c)

# Add and Subtract Fractions with the Same Denominator **Answers**

1)

$$a) \frac{5}{8} + \frac{4}{8} = \frac{9}{8} = 1 \frac{1}{8}$$

$$b) \frac{2}{3} + \frac{2}{3} = \frac{4}{3} = 1 \frac{1}{3}$$

$$c) \frac{18}{4} + \frac{3}{4} = \frac{21}{4} = 5 \frac{1}{4}$$

$$d) \frac{9}{5} + \frac{3}{5} = \frac{12}{5} = 2 \frac{2}{5}$$

$$e) \frac{18}{7} - \frac{10}{7} = \frac{8}{7} = 1 \frac{1}{7}$$

$$f) \frac{13}{9} - \frac{11}{9} = \frac{2}{9}$$

$$g) \frac{15}{4} - \frac{12}{4} = \frac{3}{4}$$

$$h) \frac{8}{3} - \frac{1}{3} = \frac{7}{3} = 2 \frac{1}{3}$$

$$i) \frac{3}{7} + \frac{5}{7} + \frac{4}{7} = \frac{12}{7} = 1 \frac{5}{7}$$

$$j) \frac{13}{4} + \frac{5}{4} + \frac{7}{4} = \frac{25}{4} = 6 \frac{1}{4}$$

$$k) \frac{11}{5} + \frac{6}{5} - \frac{2}{5} = \frac{15}{5} = 3$$

$$l) \frac{8}{4} + \frac{3}{4} - \frac{5}{4} = \frac{6}{4} = 1 \frac{2}{4} \text{ (or } 1 \frac{1}{2} \text{)}$$

2)

$$a) \frac{5}{7} + \frac{8}{7} = \frac{13}{7}$$

$$b) \frac{9}{10} + \frac{7}{10} = \frac{16}{10} = 1 \frac{6}{10}$$

$$c) \frac{8}{5} + \frac{5}{5} + \frac{2}{5} = 3$$

$$d) \frac{4}{3} + \frac{3}{3} + \frac{1}{3} = 2 \frac{2}{3}$$

$$e) \frac{11}{7} - \frac{3}{7} = \frac{8}{7}$$

$$f) \frac{20}{5} - \frac{7}{5} = \frac{13}{5} = 2 \frac{3}{5}$$

$$g) \frac{19}{8} - \frac{3}{8} - \frac{7}{8} = \frac{9}{8} = 1 \frac{1}{8}$$

$$h) \frac{22}{10} - \frac{7}{10} = \frac{15}{10} = 1 \frac{5}{10}$$

3) Multiple possible answers, for example:

$$a) \frac{10}{7} + \frac{14}{7} = \frac{24}{7}$$

$$b) \frac{12}{7} + \frac{12}{7} = \frac{24}{7}$$

$$c) \frac{5}{7} + \frac{19}{7} = \frac{24}{7}$$

4) Multiple possible answers, for example:

$$a) \frac{20}{6} - \frac{7}{6} = \frac{13}{6}$$

$$b) \frac{15}{6} - \frac{2}{6} = \frac{13}{6}$$

$$c) \frac{14}{6} - \frac{1}{6} = \frac{13}{6}$$