

Part I

Adding and Subtracting Fractions

1. Add or Subtract as indicated.

a) $\frac{1}{3} + \frac{7}{3}$ b) $\frac{3}{4} + \frac{6}{4}$ c) $\frac{2}{5} + \frac{9}{5}$

d) $8 - 5$ e) $5 - 8$ f) $12 - 17$

g) $\frac{8}{7} - \frac{5}{7}$ h) $\frac{5}{7} - \frac{8}{7}$ i) $\frac{12}{3} - \frac{17}{3}$

j) $0 - 3$ k) $2 - (-3)$ l) $-3 - (-4)$

m) $\frac{0}{4} - \frac{3}{4}$ n) $\frac{2}{7} - \frac{-3}{7}$ o) $-\frac{3}{2} - \left(-\frac{4}{2}\right)$

2. Evaluate each expression.

a) $2 - |-4|$ b) $|-3 - 5|$ c) $-3 + (-2)$

d) $\frac{2}{5} - \left| -\frac{4}{5} \right|$ e) $\left| -\frac{3}{7} - \frac{5}{7} \right|$ f) $-\frac{3}{2} + \left(-\frac{2}{2} \right)$

g) $-8 - 15$ h) $23 - 36$ i) $-23 + 36$

j) $-\frac{8}{3} - \frac{15}{3}$ k) $\frac{23}{7} - \frac{36}{7}$ l) $-\frac{23}{4} + \frac{36}{4}$

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Adding and Subtracting Fractions

1. Add or Subtract as indicated.

a) $\frac{1}{3} + \frac{7}{3}$

$$\frac{1+7}{3}$$

$$\boxed{\frac{8}{3}}$$

b) $\frac{3}{4} + \frac{6}{4}$

$$\frac{3+6}{4}$$

$$\boxed{\frac{9}{4}}$$

c) $\frac{2}{5} + \frac{9}{5}$

$$\frac{2+9}{5}$$

$$\boxed{\frac{11}{5}}$$

d) $8 - 5$

$$\boxed{3}$$

e) $5 - 8$

$$\boxed{-3}$$

f) $12 - 17$

$$\boxed{-5}$$

g) $\frac{8}{7} - \frac{5}{7}$

$$\frac{8-5}{7}$$

$$\boxed{\frac{3}{7}}$$

h) $\frac{5}{7} - \frac{8}{7}$

$$\frac{5-8}{7}$$

$$\boxed{-\frac{3}{7}}$$

i) $\frac{12}{3} - \frac{17}{3}$

$$\frac{12-17}{3}$$

$$\boxed{-\frac{5}{3}}$$

j) $0 - 3$

$$\boxed{-3}$$

k) $2 - (-3)$

$$\frac{2+3}{5}$$

$$\boxed{5}$$

l) $-3 - (-4)$

$$-3+4$$

$$\boxed{1}$$

m) $\frac{0}{4} - \frac{3}{4}$

$$\frac{0-3}{4}$$

$$\boxed{-\frac{3}{4}}$$

n) $\frac{2}{7} - \frac{-3}{7}$

$$\frac{2-(-3)}{7}$$

$$\boxed{\frac{5}{7}}$$

o) $-\frac{3}{2} - \left(-\frac{4}{2}\right)$

$$\frac{-3-(-4)}{2}$$

$$\boxed{\frac{1}{2}}$$

2. Evaluate each expression.

a) $2 - |-4|$

$$\frac{2-4}{-2}$$

b) $|-3-5|$

$$\frac{|-8|}{8}$$

c) $-3 + (-2)$

$$\frac{-3-2}{-5}$$

d) $\frac{2}{5} - \left| -\frac{4}{5} \right|$

$$\frac{2}{5} - \frac{4}{5}$$

$$\frac{2-4}{5}$$

$$\frac{-2}{5}$$

e) $\left| -\frac{3}{7} - \frac{5}{7} \right|$

$$\left| \frac{-3-5}{7} \right|$$

$$\left| -\frac{8}{7} \right|$$

$$\frac{8}{7}$$

f) $-\frac{3}{2} + \left(-\frac{2}{2} \right)$

$$-\frac{3}{2} - \frac{2}{2}$$

$$\frac{-3-2}{2}$$

$$\frac{-5}{2}$$

g) $-8 - 15$

$$\frac{-23}{-23}$$

h) $23 - 36$

$$\frac{-13}{-13}$$

i) $-23 + 36$

$$\frac{13}{13}$$

j) $-\frac{8}{3} - \frac{15}{3}$

$$\frac{-8-15}{3}$$

$$\frac{-23}{3}$$

-00-

$$\frac{-23}{3}$$

k) $\frac{23}{7} - \frac{36}{7}$

$$\frac{23-36}{7}$$

$$\frac{-13}{7}$$

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$$\frac{-13}{7}$$

l) $-\frac{23}{4} + \frac{36}{4}$

$$\frac{-23+36}{4}$$

$$\frac{13}{4}$$