

Section 2.3 Extra Practice

1. i) Estimate. **ii)** Then, calculate. Show your work.

a) $\frac{3}{8} + \frac{1}{4}$

b) $-\frac{1}{2} + \frac{7}{10}$

c) $3\frac{2}{3} + \left(-2\frac{1}{6}\right)$

d) $\frac{3}{10} - \left(-\frac{2}{5}\right)$

e) $-\frac{3}{4} + \frac{1}{2}$

f) $-\frac{1}{4} + \left(-2\frac{1}{3}\right)$

g) $-3\frac{1}{2} + 1\frac{3}{7}$

h) $-\frac{2}{3} - \left(-\frac{5}{6}\right)$

2. i) Estimate. **ii)** Then, calculate. Show your work.

a) $\frac{1}{3} \times \left(-\frac{4}{5}\right)$

b) $2\frac{1}{2} \left(3\frac{2}{3}\right)$

c) $4\frac{1}{2} \div \left(-2\frac{1}{4}\right)$

d) $-\frac{3}{4} \div \left(-\frac{2}{5}\right)$

e) $-\frac{2}{3} \times \left(-\frac{3}{8}\right)$

f) $\frac{1}{6} \div \left(-\frac{5}{12}\right)$

g) $-\frac{5}{8} \div \left(-\frac{15}{16}\right)$

h) $1\frac{1}{8} \times \left(-2\frac{2}{7}\right)$

For #3 and 4,

a) write an expression using rational numbers to represent the problem, then calculate

b) write a sentence to answer the problem

3. Mark has 24 newspapers to deliver. In one apartment building, he delivers $\frac{3}{8}$

of them. In the next apartment building, he delivers $\frac{2}{3}$ of the remaining amount. How many papers does he have left to deliver?

4. The Rodriguez family has a monthly income of \$6000. They budget $\frac{1}{3}$ for food, $\frac{1}{4}$ for rent, $\frac{1}{5}$ for clothing, and $\frac{1}{10}$ for savings. How much money is left for other expenses?

5. Complete each statement. Show your work.

a) $-1\frac{1}{2} - \underline{\hspace{2cm}} = \frac{5}{6}$

b) $\frac{2}{5} + \underline{\hspace{2cm}} = -\frac{3}{10}$

c) $-1\frac{3}{8} \times \underline{\hspace{2cm}} = 2\frac{1}{4}$

d) $\underline{\hspace{2cm}} \div \frac{2}{3} = -3\frac{1}{2}$