

Name: \_\_\_\_\_

Block: \_\_\_\_\_

### 3.2 Practice – Adding Rational Numbers

1. Determine each sum.

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

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

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

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

2. Sarah borrowed \$40.25 from her parents for a new sweater. She earns \$17.50 for a night of baby-sitting and gives this to her parents.

a) Write an addition statement to represent this situation.

b) How much does Sarah now owe?

3. Determine each sum.

a)  $-\frac{2}{3} + \frac{1}{2}$

b)  $\frac{4}{5} + \left(-\frac{1}{3}\right)$

c)  $-\frac{11}{4} + \left(-\frac{6}{5}\right)$

d)  $\frac{13}{5} + \frac{9}{2}$

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

f)  $\frac{9}{5} + \left(-\frac{17}{6}\right)$

g)  $-3\frac{3}{4} + 4\frac{5}{8}$

h)  $1\frac{5}{6} + \left(-5\frac{2}{3}\right)$

4. Determine each sum.

a)  $-3.6 + (-21.9)$       b)  $-0.81 + 2.4$       c)  $9.78 + (-13.33)$       d)  $4.88 + (-12.26)$

5. The table shows the money earned and spent by Lucille in the first 6 months of running her new business. Did Lucille's business make a profit? Use rational numbers in your explanation.

Item	Income	Expense
New tables and chairs		\$545.50
New stove		\$978.44
Profit on food	\$2115.70	
Repair of roof		\$888.00
Profit on coffee	\$2570.40	
Salary of part-time cook		\$2540.20

### 3.2 Practice - Answers

1. a)  $-\frac{1}{4}$     b)  $1\frac{1}{4}$     c)  $\frac{1}{4}$     d)  $-1\frac{1}{4}$

2. a)  $-40.25 + 17.50 = -22.75$     b) Sarah now owes \$22.75.

3. a)  $-\frac{1}{6}$     b)  $\frac{7}{15}$     c)  $-3\frac{19}{20}$     d)  $7\frac{1}{10}$     e)  $-4\frac{1}{12}$     f)  $-1\frac{1}{30}$     g)  $\frac{7}{8}$     h)  $-3\frac{5}{6}$

4. a)  $-25.5$     b)  $1.59$     c)  $-3.55$     d)  $-7.38$

5.  $(-545.50) + (-978.44) + 2115.70 + (-888.00) + 2570.40 + (-2540.20) = -266.04$ , so she is in debt \$266.04 after her first 6 months.