

# Math 9

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

## 3.2 – Adding Rational Numbers

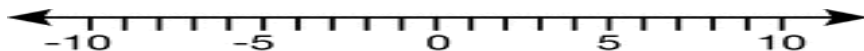
Date: \_\_\_\_\_

Recall from grade 8:

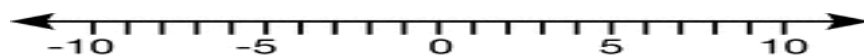
### Investigate

Use the Number Lines to **illustrate** the following sums:

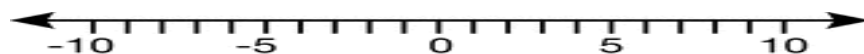
a.  $3 + 7 =$



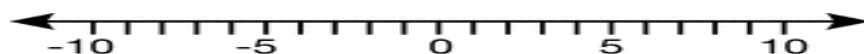
b.  $-3 + 7 =$



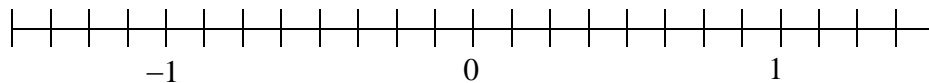
c.  $3 + (-7) =$



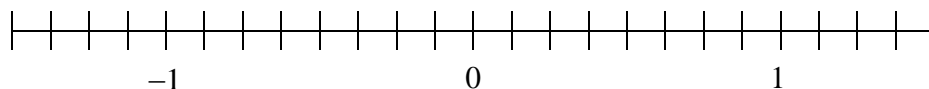
d.  $-3 + (-7) =$



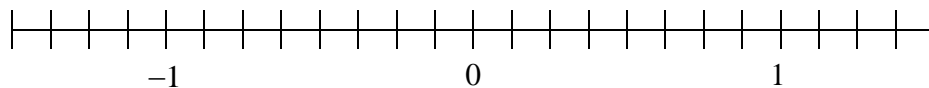
e.  $\frac{3}{8} + \frac{7}{8} =$



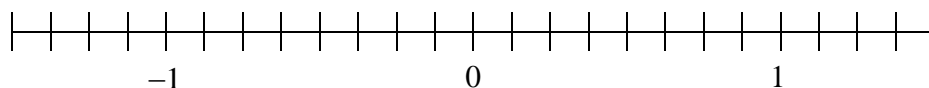
f.  $-\frac{3}{8} + \frac{7}{8} =$



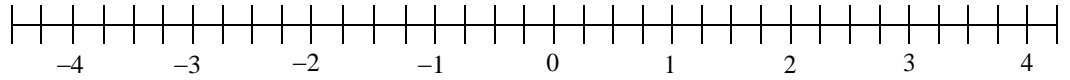
g.  $\frac{3}{8} + \left(-\frac{7}{8}\right) =$



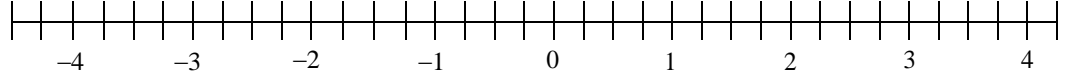
h.  $\left(-\frac{3}{8}\right) + \left(-\frac{7}{8}\right) =$



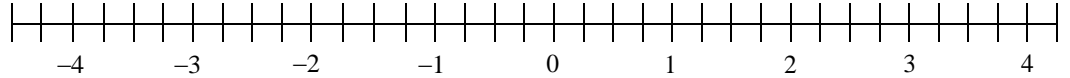
i.  $1\frac{1}{4} + 2\frac{3}{4} =$



j.  $-1\frac{1}{4} + 2\frac{3}{4} =$



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



How do we add fractions that have different denominators???

a.  $\frac{2}{3} + \frac{4}{5} =$

b.  $\frac{1}{3} + \frac{4}{7} =$

c.  $\frac{5}{6} + \left(-\frac{9}{12}\right) =$

d.  $-\frac{3}{4} + \frac{9}{10} =$

**Adding Mixed Fractions**     **\*\*\* Change all MIXED fractions to IMPROPER fractions before adding \*\*\***

Convert to **IMPROPER** fractions:  $3\frac{2}{5} =$

$$-5\frac{3}{7} =$$

Determine the **SUMS** of the following:

a.  $2\frac{1}{3} + 1\frac{1}{4} =$

b.  $\frac{3}{5} + \left(-2\frac{1}{3}\right) =$

c.  $-\frac{1}{6} + \left(-4\frac{2}{3}\right) =$

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

**Adding Rational Numbers in Decimal Form**

a.  $1.2 + 3.9 =$

b.  $2.1 + (-3.4) =$

c.  $-2.5 + 1.7 =$

d.  $(-8.1) + (-2.8) =$