

Math 9

Name: _____

3.3 – Subtracting Rational Numbers

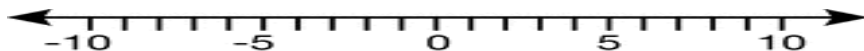
Date: _____

Recall from grade 8:

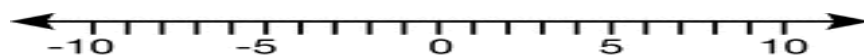
Investigate

Use the Number Lines to **illustrate** the following differences/subtractions:

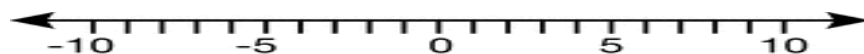
a. $3 - 7 =$



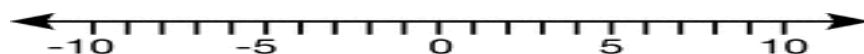
b. $-3 - 7 =$



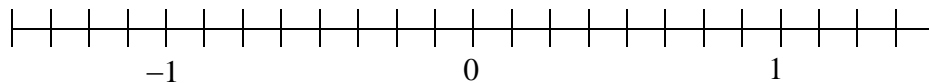
c. $3 - (-7) =$



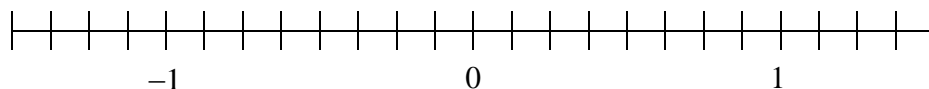
d. $-3 - (-7) =$



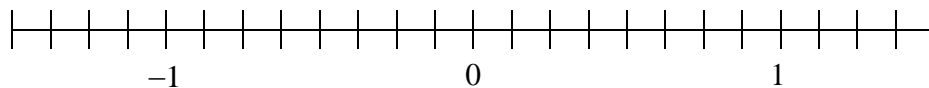
e. $\frac{3}{8} - \frac{7}{8} =$



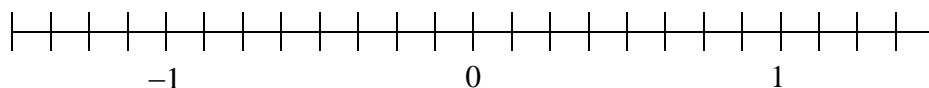
f. $-\frac{3}{8} - \frac{7}{8} =$



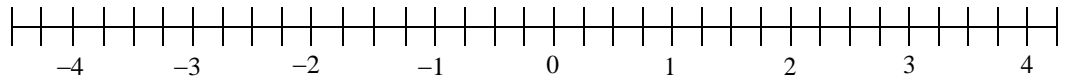
g. $\frac{3}{8} - \left(-\frac{7}{8}\right) =$



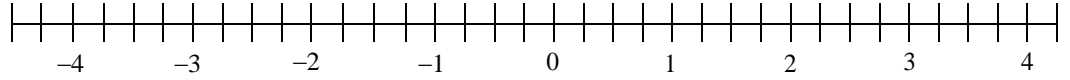
h. $\left(-\frac{3}{8}\right) - \left(-\frac{7}{8}\right) =$



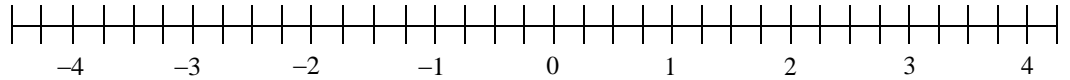
$$i. 1\frac{1}{4} - 2\frac{3}{4} =$$



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



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



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

To **SUBTRACT** fractions, we use the same strategy that we used when **ADDING** fractions:

i)

ii)

iii)

iv)

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

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

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

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

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

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

Subtracting Rational Numbers in Decimal Form

a. $1.2 - 3.9 =$

b. $2.1 - (-3.4) =$

c. $-2.5 - 1.7 =$

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