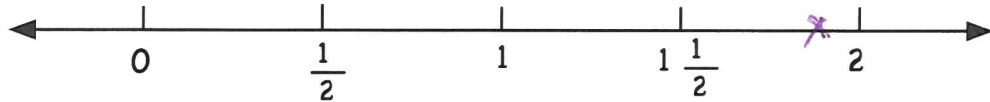


Fraction Estimation

For each problem, imagine the fractions using fraction circles. Estimate the value of each sum or difference. Put an X in the interval where you think the actual answer will be.

★ $\frac{5}{6} + \frac{11}{12}$

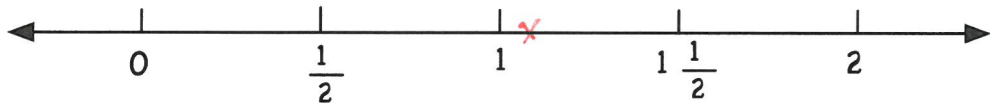


Estimate
explain

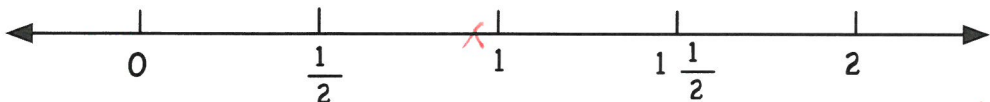
3

4

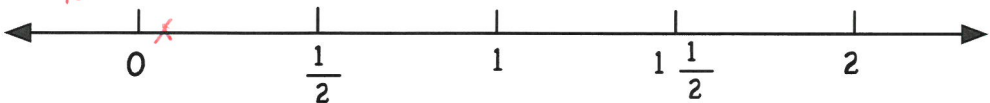
both fractions are a little more than $\frac{1}{2}$, and $\frac{1}{2} + \frac{1}{2} = 1$, so the sum is a little more than 1



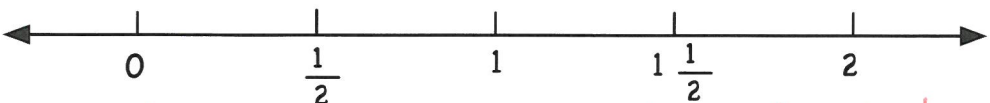
both fractions are a little less than $\frac{1}{2}$, and $\frac{1}{2} + \frac{1}{2} = 1$, so the sum is a little less than 1



$\frac{1}{15}$ is close to 0 and $\frac{1}{30}$ is even smaller, so $\frac{1}{15} + \frac{1}{30}$ is a little more than 0



→ $\frac{1}{4} + \frac{1}{3}$

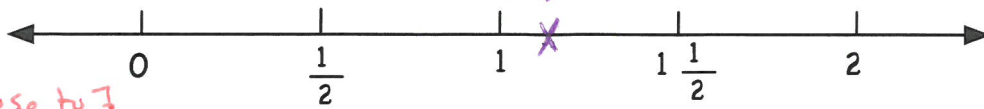


$\frac{1}{4} + \frac{1}{4} = \frac{1}{2}$
 $\frac{1}{3} > \frac{1}{4}$ (a little)
 so $\frac{1}{4} + \frac{1}{3}$ a little bigger than $\frac{1}{2}$

$\frac{1}{4}$ is $\frac{1}{2}$ of $\frac{1}{2}$
 $\frac{1}{3}$ is $> \frac{1}{4}$ and $\frac{1}{3} < \frac{1}{2}$
 so $\frac{1}{4} + \frac{1}{3}$ is $> \frac{1}{2}$ but < 1

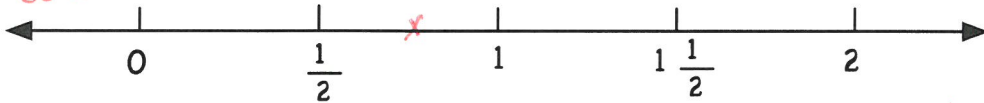
1 $\frac{9}{10} - \frac{3}{4}$

more than 1! $\frac{9}{10} > \frac{3}{4}$



2 $\frac{8}{10} - \frac{1}{100}$
 → close to 1
 → close to 0
 close to 1

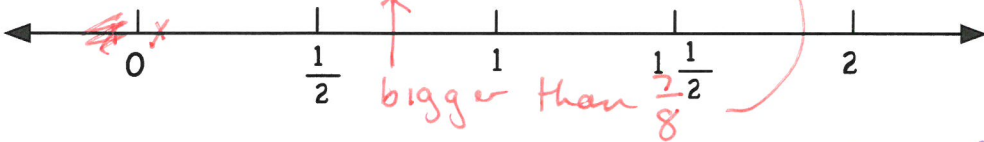
$\frac{8}{10}$ is about $\frac{1}{2}$ way between $\frac{1}{2}$ and 1



Estimate
 & explain
 3
 4

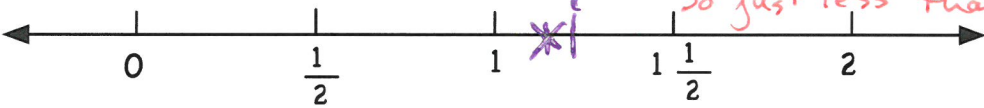
$\frac{8}{9} - \frac{7}{8}$

both almost 1 } a little more than 0, because
 $1 - 1 = 0$
 $\frac{8}{9} + \frac{1}{9} = 1$ $\frac{7}{8} + \frac{1}{8} = 1$ $\frac{8}{9} > \frac{7}{8}$



$1\frac{1}{4} - \frac{1}{10}$

almost 0 → a little less than $\frac{1}{4}$ and a little more than 0
 so just less than $\frac{1}{4}$

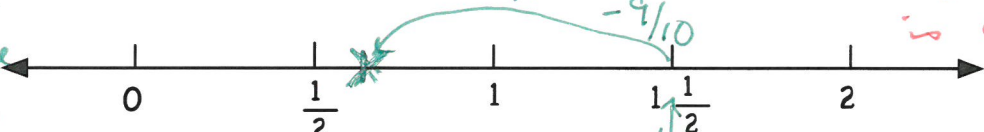


5 $1\frac{7}{14} - \frac{9}{10}$

$1\frac{1}{2} - 1 = \frac{1}{2}$

$\frac{9}{10}$ a little less than 1, so answer is a little more than $\frac{1}{2}$

$1\frac{1}{2}$ close to 1



$\frac{10}{20} - \frac{3}{10}$

