

Problem Story – Fraction as a Set Model

A survey about preferred activities is given to 12 students in your class. $\frac{1}{3}$ of the students prefer to swim at an outdoor pool. $\frac{2}{3}$ of the students prefer to play golf. The rest of the students prefer to stay indoors.

- a. How many students like to swim?



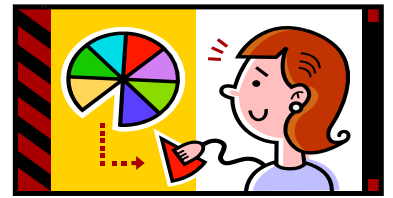
- b. How many students like to golf?



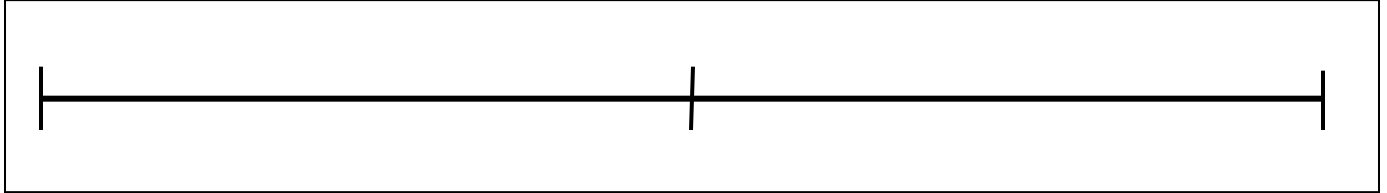
- c. How many students prefer to play indoors?



Name _____ Fractions on a Number Line

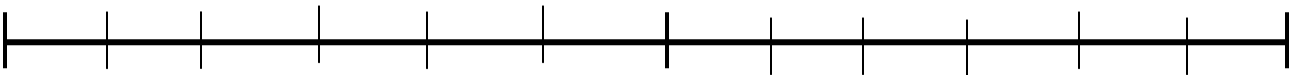


Place the following fractions on this number line: $\frac{1}{2}$, $\frac{1}{3}$, $\frac{2}{3}$, $\frac{1}{4}$, $\frac{3}{4}$, $\frac{1}{6}$, $\frac{5}{6}$



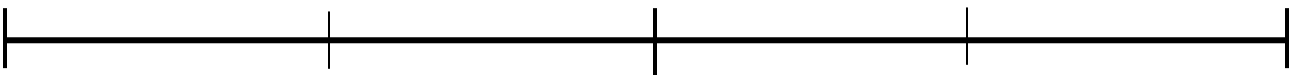
To represent the problem – Represent the set of students as a whole and as fractions

Students represented as 1 set:

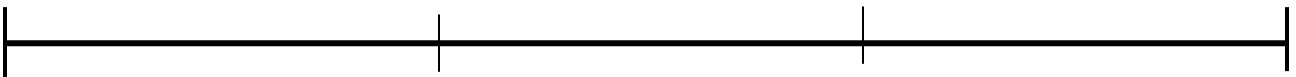


Students represented as fractional groups:

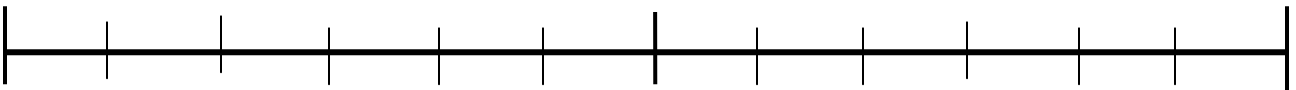
— swim



— golf



— play indoors



Represent the group of 12 as a fraction train, according to their preferred activities. Build it or draw it.