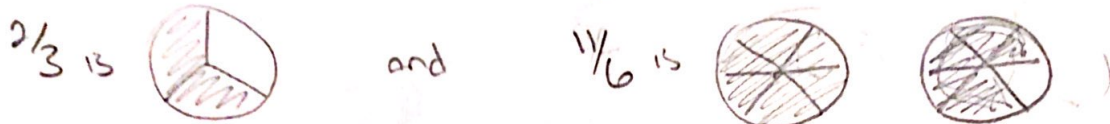


## Fraction comparison

Which fraction is larger of  $\frac{2}{3}$  and  $\frac{11}{6}$ ?

We can sketch the fractions to get a feel for each fraction:



Notice  $\frac{11}{6}$  is an improper fraction because the numerator is larger than the denominator. We could write  $\frac{11}{6}$  as  $1 + \frac{5}{6}$

Certainly then  $\frac{11}{6}$  which is larger than 1, is larger than  $\frac{2}{3}$ .

So  $\frac{2}{3} < \frac{11}{6}$

OR

We can get each fraction to share a common denominator.

Notice that both 3 and 6 go into 6.

That is 6 is a common multiple of 3 and 6. We will use 6 as our common denominator.

So  $\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$  and  $\frac{11}{6}$  (already has 6 in den)

We are comparing 4 to 11 pieces (the # in numerator).

Certainly  $4 < 11$  so  $\frac{4}{6} < \frac{11}{6} \Rightarrow \frac{2}{3} < \frac{11}{6}$