Fraction Models

In this video, we will go over how to use models to represent fraction division. $\frac{5}{4}$. Our first example is $\frac{5}{4}$. We can write this fraction as $5 \div 4$, which represents 5 wholes broken into 4 groups. Let's model out 5 wholes and 4 groups. We can take 1 whole and put it in each group. We are left with 1 whole. Now we split this whole into 4 equal-sized parts. Each part is $\frac{1}{4}$. We can put one of the parts in each group. Each group has $1\frac{1}{4}$. $\frac{5}{4}$, or $5 \div 4$ is $1\frac{1}{4}$. $\frac{8}{6}$. $\frac{8}{6}$ is $8 \div 6$. We can make 8 wholes and 6 groups. We put 1 whole in each group. We are left with 2 wholes. We split each whole into 6 equal-sized pieces. Each piece is $\frac{1}{6}$ of a whole. Now we split the pieces among the 6 groups. Each group has one whole and $\frac{2}{6}$, so each group has $1\frac{2}{6}$. $\frac{8}{6}$, or $8 \div 6$, is $1\frac{2}{6}$. $\frac{4}{3}$. $\frac{4}{3}$ is $4 \div 3$. We put 1 whole in each group and are left with 1 whole. We split the 1 whole into 3 equal-sized pieces. Each piece is $\frac{1}{3}$. We put $\frac{1}{3}$ in each group. Each group has $1\frac{1}{3}$. $\frac{4}{3}$, or $4 \div 3$, is equal to $1\frac{1}{3}$.