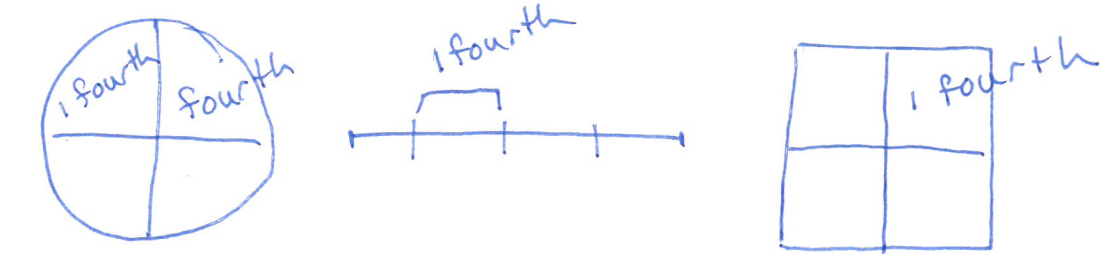


CCSS.MATH.CONTENT.3.NF.A.1

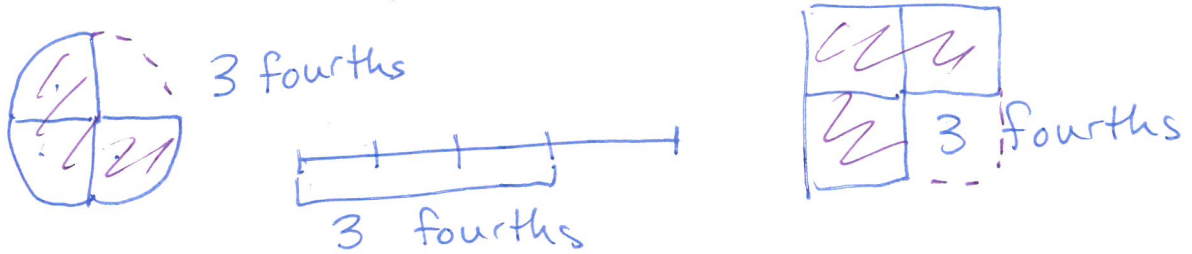
Understand a fraction $1/b$ as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by a parts of size $1/b$.

To show a $\frac{3}{4}$ of a whole unit, we start with a whole unit, and split it to make 4 equal parts. Then each part has

size $\frac{1}{4}$:

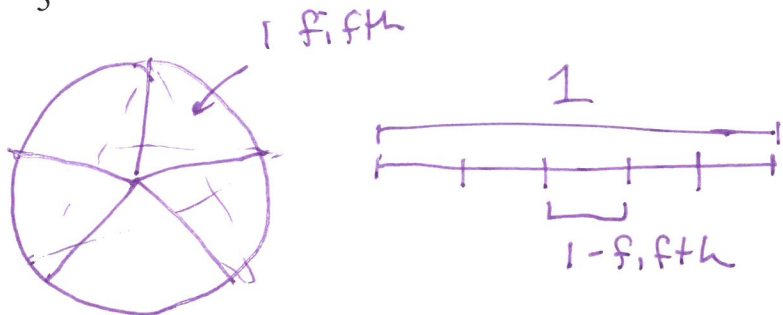


Next we take 3 parts, each of which are size $\frac{1}{4}$:

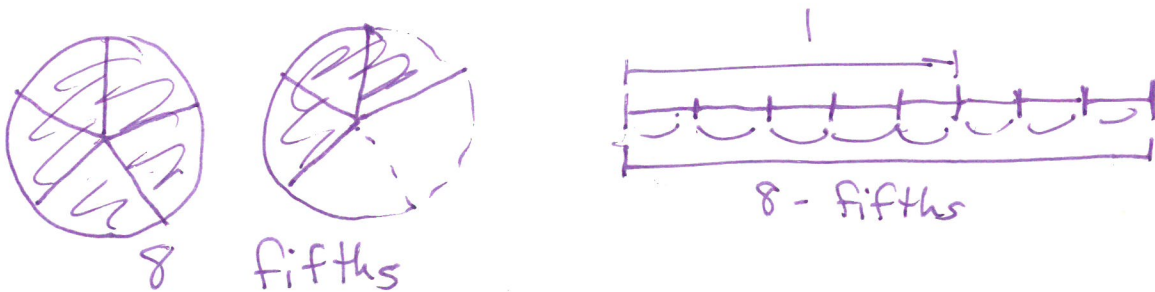


To show a $\frac{8}{5}$ of a whole unit, we start with a whole unit, and split it to make 5 equal parts. Then each part has

size $\frac{1}{5}$:



Next we take 8 parts, each of which are size $\frac{1}{5}$:



★ Split a whole into more parts → parts are smaller

$\frac{3}{8} > \frac{3}{10}$ → same number of parts
eighths are bigger than tenths
(split in fewer) (split in more parts)

Same numerator

$\frac{5}{8} < \frac{6}{8}$ → $\frac{6}{8}$ has one more eighth
Same size parts

Same denominator

$\frac{7}{8} > \frac{6}{7}$ $\frac{7}{8}$ is closer to one:
missing $\frac{1}{8}$ missing $\frac{1}{7}$
smaller missing piece

residual

$\frac{3}{5} > \frac{4}{9}$
more than $\frac{1}{2}$ less than $\frac{1}{2}$

transitive