Roots of Reason
rootsofreason.org

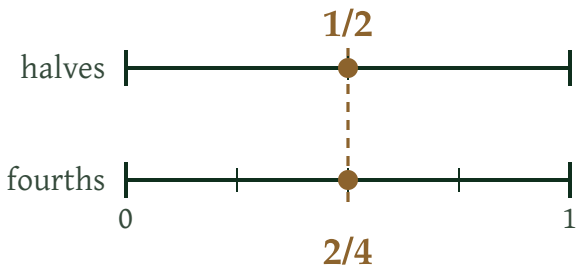
same amount, new name

ANCHOR CHART · GRADE 3 · 3.NF.A.3

Equivalent Fractions

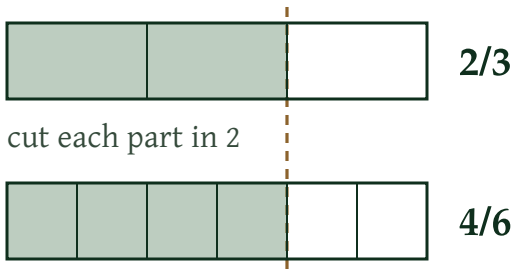
$\frac{1}{2} = \frac{2}{4} = \frac{3}{6}$ the same amount of the same whole, cut a different number of times.

1 Same Point, Same Number



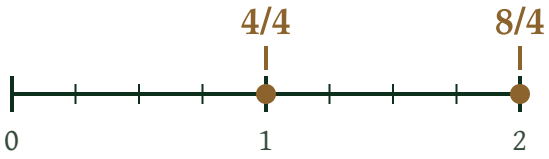
1/2 and 2/4 stop at the **same point**, so they are one number with two names.

2 Cut Every Part Again



Cutting each part in two doubles both numbers at once. The shaded edge does not move.

3 Whole Numbers Are Fractions

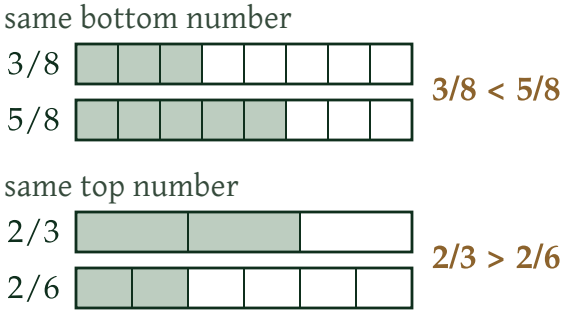


$3 = 3/1$ and $6/1 = 6$

a bottom number of 1 counts whole pieces

One whole is **4/4**, two wholes are **8/4**. A bottom number of 1 means the pieces are whole ones.

4 Compare by Reasoning



Same bottom number, so count the pieces. Same top number, so fewer cuts means bigger pieces.