

Fractions on a number line

WHAT THIS LESSON TEACHES

A fraction is a point sitting between 0 and 1 on the number line. The bottom number tells you how many equal jumps to split the gap into, and the top number tells you how many jumps to count.

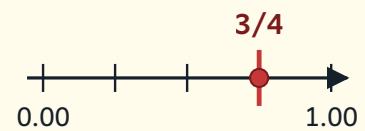
→ Split 0 to 1 into 2 equal jumps and count 1 to place one half, like a runner at the middle of the pitch.

→ Split 0 to 1 into 4 equal jumps and count 3 to place three quarters.

MODEL THIS ON THE BOARD

PLACING THREE QUARTERS ON THE LINE

- ① The bottom number is **4**, so split the gap from 0 to 1 into **4** equal jumps.
- ② Each jump is one quarter; the ticks show $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$.
- ③ The top number is **3**, so count **3** jumps from 0 and mark that point.



DISCUSSION STARTER

REFLECT How does splitting the gap from 0 to 1 into equal jumps help you place a fraction?

ANSWER KEY

Scaffold: visual check on the page

Q1: $\frac{1}{5}$

Q2: $\frac{1}{6}$

Q3: $\frac{5}{6}$

EXTENSION SHEET · STRETCH ANSWERS

S1: $3\frac{3}{5}$ (between 3 and 4)

S4: $2\frac{1}{5}$ (between 2 and 3)

S2: $1\frac{3}{5}$ (between 1 and 2)

S5: $\frac{3}{8}$

S3: $3\frac{1}{5}$ (between 3 and 4)