Name _____ Date _____

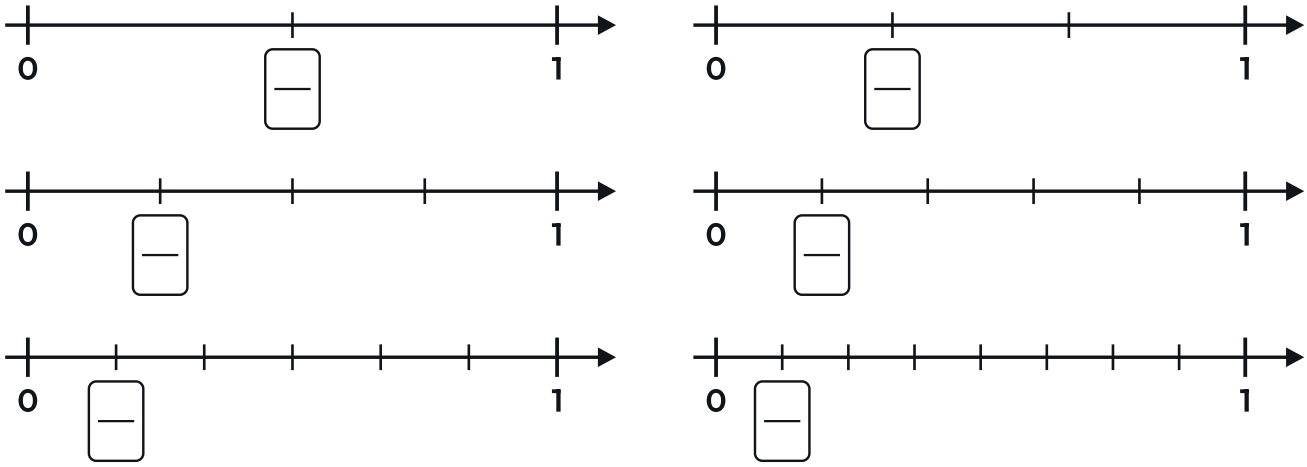
Unit Fractions on the Number Line

Example

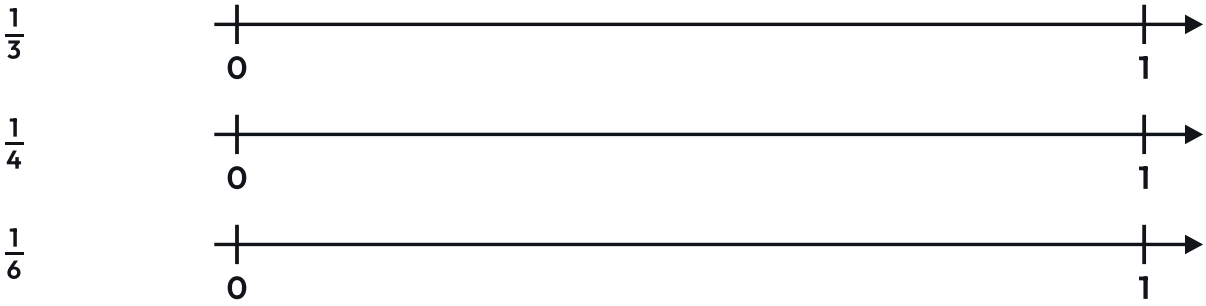


The part of the line from 0 to 1 is divided into **4 equal parts**. The first part ends at the point $\frac{1}{4}$: from zero to it is **one jump** the size of one quarter.

1 ON YOUR OWN The part from 0 to 1 is divided into equal parts. Which fraction belongs to the first mark after zero? Write it in the box.



2 ON YOUR OWN From 0 to 1 is exactly 12 cm. Use a ruler to split it into the given number of equal parts and mark the unit fraction with a dot.

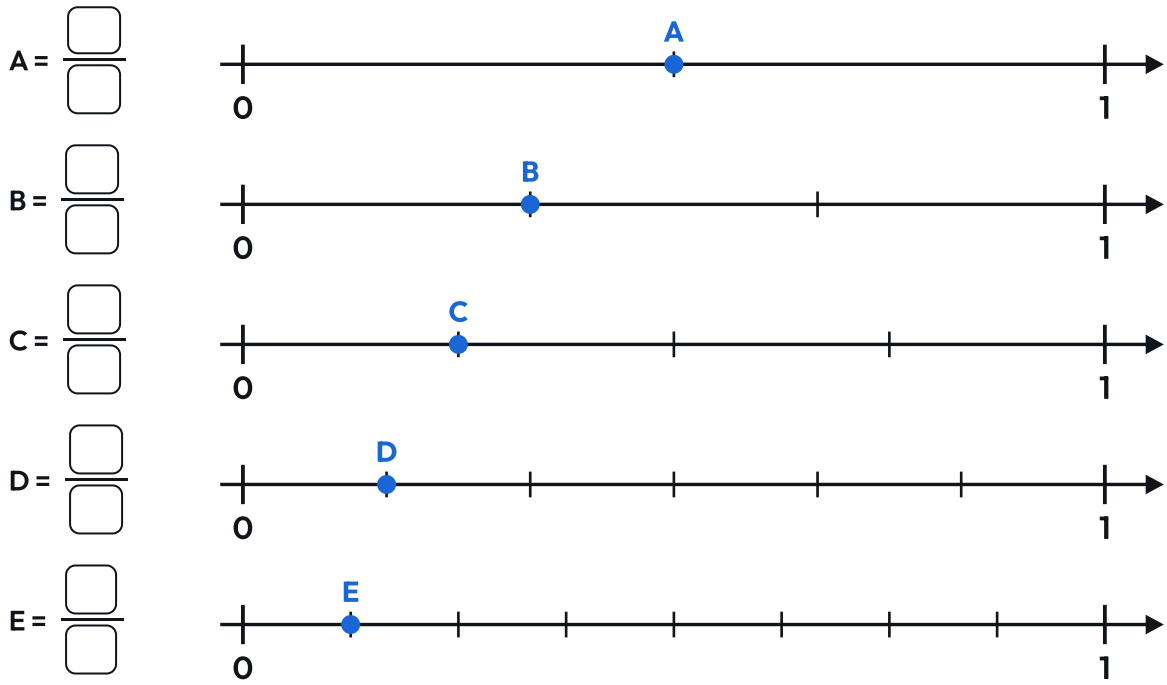


Names (pair) _____ Date _____

Remember

A unit fraction $\frac{1}{b}$ is a **number** with its own point on the line: split the part from 0 to 1 into **b equal parts**, and $\frac{1}{b}$ is the end of the first part. The greater the denominator, the smaller the parts, so $\frac{1}{b}$ is **closer to zero**.

3 IN PAIRS All the lines have the same length from 0 to 1. Which fraction belongs to each point? Put the points in order from the smallest number to the greatest.



From smallest to greatest: ☐ < ☐ < ☐ < ☐ < ☐

4 IN PAIRS Compare using the lines. Write <, > or =.

$\frac{1}{3}$ ◯ $\frac{1}{5}$ $\frac{1}{8}$ ◯ $\frac{1}{6}$ $\frac{1}{2}$ ◯ $\frac{1}{10}$ $\frac{1}{7}$ ◯ $\frac{1}{4}$

Names (pair) _____ Date _____

5 IN PAIRS True or false? Explain.

$\frac{1}{8}$ is greater than $\frac{1}{6}$ because 8 is greater than 6. **true / false**

Why? _____

$\frac{1}{2}$ is exactly halfway between 0 and 1 on the line. **true / false**

Why? _____

$\frac{1}{5}$ is closer to one than $\frac{1}{4}$. **true / false**

Why? _____

The Number Line app · otooly.com/number-line

Choose the range 0 to 1 and split the whole, e.g. into sixths. Enter $\frac{1}{6}$ and $\frac{1}{3}$ and check which number is closer to zero.

6 IN PAIRS CHALLENGE Ana says: "There are no unit fractions between 0 and $\frac{1}{10}$." Is Ana right? Give an example or explain.

★ ON YOUR OWN **Exit card.** Which number is closer to zero: $\frac{1}{3}$ or $\frac{1}{9}$? Why?