

1 Between



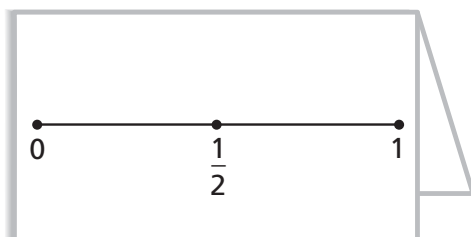
Pairs

Start

LEVEL 1

Fold a blank piece of paper in half the long way. On it, draw a line segment that is 10 inches long. Label one end 0, and the other 1.

1. Mark the point halfway between 0 and 1 and label it with a fraction.



2. Next, mark the point halfway between 0 and the point that you just marked. Label it with the fraction that describes its position on the whole line segment between 0 and 1.
3. Continue marking and labeling the halfway point between 0 and each new point, until the denominator is greater than 100.
4. **Analyze** What pattern do you see in the numbers? Why does this happen?

LEVEL 2

5. On the other half of the paper, draw a line segment that is 10 inches long. Label the ends with 0 and 1.
6. Mark the point halfway between 0 and 1 and label it with a fraction.
7. Continue marking and labeling the halfway point on the line segment between each new point and 1 until the denominator is greater than 100.
8. **Analyze** What pattern do you see in the numbers? Why does this happen?