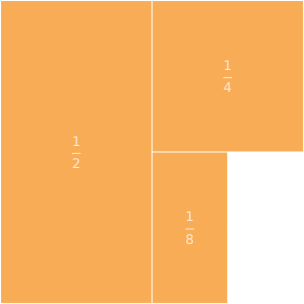




$$\frac{1}{2}$$

$\frac{1}{4}$

$\frac{1}{2}$



A diagram illustrating the partitioning of a unit square into four rectangles. The largest rectangle on the left has an area of  $\frac{1}{2}$ . The top-right rectangle has an area of  $\frac{1}{4}$ . The bottom-left rectangle has an area of  $\frac{1}{8}$ . The bottom-right rectangle has an area of  $\frac{1}{16}$ . The sum of these areas is  $\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} = \frac{8}{16} + \frac{4}{16} + \frac{2}{16} + \frac{1}{16} = \frac{15}{16}$ , which is less than 1, indicating that the diagram does not represent a complete partition of the unit square.

$$\frac{1}{2}$$

$$\frac{1}{4}$$

$$\frac{1}{8}$$

$$\frac{1}{16}$$

