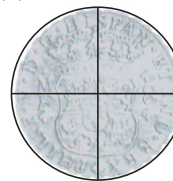# Halves, Quarters, Eighths, Sixteenths . . .

1. Remember how silver dollars (Reales) were sectioned to make fractions of a dollar. Every cut is made to split the smaller pieces into two even smaller ones.
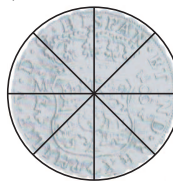   For (a) – (d), write the number of pieces the dollar is divided into below each figure, then shade one piece.
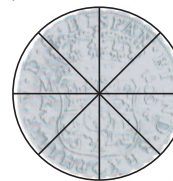   For (e), add lines to cut the pieces in half again so that you make sixteenths of a dollar.

(a)　　　　　　(b)　　　　　　(c)　　　　　　(d)　　　　　　(e)

How many quarters are there in a half?

How many eighths are there in a quarter?

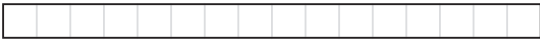How many sixteenths are there in an eighth?

How many eighths are there in a half?

How many sixteenths are there in a quarter?

How many sixteenths are there in a half?

2. Let's repeat this exercise but with rectangles. Shade the fraction indicated for each of the whole rectangles below.
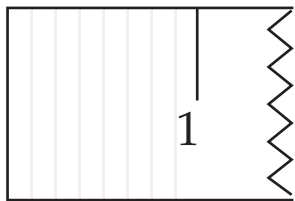
(a) 1 whole

(b) $\frac{1}{2}$

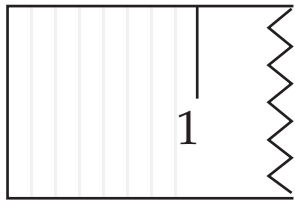(c) $\frac{1}{4}$

(d) $\frac{1}{8}$

(e) $\frac{1}{16}$

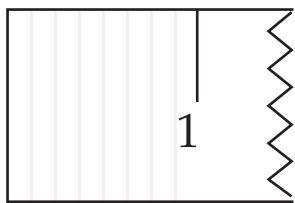**3.** Now apply this logic to rulers. Mark the fractions indicated for each of the 1 inch rulers below.
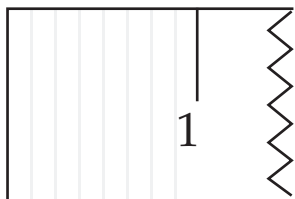
(a) $\frac{1}{2}$ inch

1

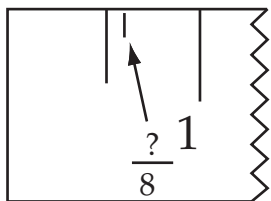(b) $\frac{1}{4}$ inch
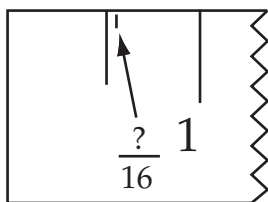
1

(c) $\frac{1}{8}$ inch

1

(d) $\frac{1}{16}$ inch

1

4. Based on your results to (3), find the correct fraction of an inch for the indicated marks.

(a)

$\frac{?}{8}$ 1

(b)

$\frac{?}{16}$ 1

(c)

$\frac{?}{16}$ 1