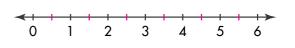


**13.** Cynthia has a piece of wood that is 6 feet long. She cuts it into  $\frac{1}{2}$ -foot pieces. How many pieces does she have? Use the number line to help you solve the problem.

12 pieces



14. Gregg has a coin collection album with 275 pages. Each coin is displayed on  $\frac{1}{6}$  of a page. How many coins will fit in the album?

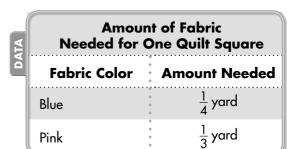
| L   | 275 pages        |
|---|------------------|
| ? coins $\rightarrow \boxed{\frac{1}{6}}$ | ?                |
|   | ge for each coin |
| 1,650 coins                               |                  |

15. enVision<sup>®</sup> STEM Suppose a wind turbine requires <sup>1</sup>/<sub>6</sub> square mile of land. How many turbines can be built on 8 square miles of land?
48 wind turbines

**16. Reasoning** Meredith modeled a division problem on the number line. What division problem did she model? Find the quotient.

$$\frac{1}{8} \div 2; \frac{1}{16}$$

17. Higher Order Thinking Millie has 5 yards of blue fabric and 7 yards of pink fabric. How many quilt squares can she make with the fabric she has if both colors are needed to make one square? Explain your reasoning. 20 quilt squares; Sample answer: She has enough blue fabric to make  $5 \div \frac{1}{4}$ , or 20 quilt squares. She has enough pink fabric to make  $7 \div \frac{1}{3}$ , or 21 quilt squares. Since 20 < 21, Millie can only make 20 quilt squares.



 $\frac{4}{8}$   $\frac{5}{8}$ 

<u>3</u> 8

0 : 8

 $\frac{7}{8}$ 

<u>6</u> 8

## Assessment Practice

**18.** Cindy says that  $\frac{1}{4} \div 12 = 3$ . Is she correct? If not, justify your reasoning and give the correct quotient.

No; Sample answer: Cindy's equation shows  $\frac{1}{4}$  partitioned into 12 parts. The correct answer to her equation is  $\frac{1}{48}$ .