## Name

## Area of a Rectangle

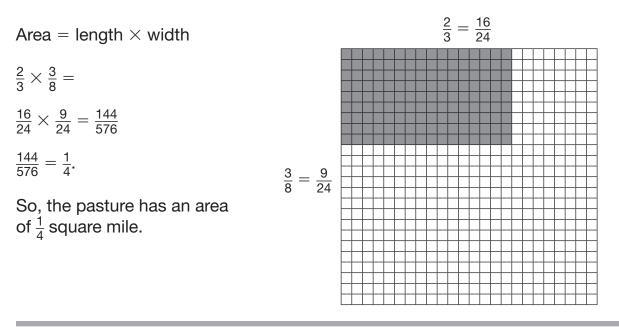
You have learned how to multiply fractions by finding the area of a rectangle.

What is the area of a horse pasture that is  $\frac{3}{8}$  mile long by  $\frac{2}{3}$  mile wide?

You can draw the pasture on a 24  $\times$  24 grid.

 $\frac{3}{8} = \frac{9}{24}$  Change each length and width to 24ths.

 $\frac{2}{3} = \frac{16}{24}$ 



For questions 1-2, find each area.

- **1.** a rectangle with sides of lengths  $\frac{1}{6}$  yard and  $\frac{3}{4}$  yard \_\_\_\_\_
- **2.** a square with sides of lengths  $\frac{2}{5}$  inch \_\_\_\_\_
- **3. Writing to Explain** Is  $\frac{5}{8}$  sq. in. a reasonable answer for the area of a rectangle with lengths of  $\frac{1}{8}$  inch by 5 inches?

Reteaching

11-5

Name	Practice 11-5
Area of a Rectangle	
Find each area.	
<b>1.</b> a rectangle with sides of lengths $\frac{4}{5}$ foot and $\frac{1}{2}$ foot	
<b>2.</b> a rectangle with sides of lengths $\frac{1}{3}$ yard and $\frac{3}{4}$ yard	
<b>3.</b> a rectangle with sides of lengths $\frac{2}{3}$ foot and $\frac{1}{3}$ foot	
<b>4.</b> a rectangle with sides of lengths $\frac{5}{6}$ inch and $\frac{1}{3}$ inch	
<b>5.</b> a square with sides of length $\frac{5}{8}$ inch	
<b>6.</b> a rectangle with a length of 3 inches and a width of $\frac{1}{8}$ inch	
<b>7.</b> a rectangle with a length of $\frac{1}{5}$ yard and a width of $\frac{2}{3}$ yard	
<b>8.</b> a rectangle with a length of $\frac{4}{9}$ foot and a width of 2 feet	
<b>9.</b> Mrs. Henley built a cage for her bird. She wanted to cover the bottom of the cage with newspaper. If the cage is $\frac{1}{4}$ yas by $\frac{1}{2}$ yard, what is the area that needs to be covered?	
<b>A</b> $\frac{1}{8}$ sq. yd <b>B</b> $\frac{1}{4}$ sq. yd <b>C</b> $\frac{1}{2}$ sq. yd <b>D</b>	) 8 sq. yd
<b>10.</b> Writing to Explain Tariq and Marie each multiplied $\frac{1}{8}$ inch $\times \frac{5}{8}$ inch. Tariq got $\frac{5}{8}$ sq. in. and Marie got $\frac{5}{64}$ sq. in. Which student found the correct area? How do you know?	

