Area of a Rectangle

Find each area.

1. a rectangle with sides of lengths \( \frac{4}{5} \) foot and \( \frac{1}{2} \) foot

2. a rectangle with sides of lengths \( \frac{1}{3} \) yard and \( \frac{3}{4} \) yard

3. a rectangle with sides of lengths \( \frac{2}{3} \) foot and \( \frac{1}{3} \) foot

4. a rectangle with sides of lengths \( \frac{5}{6} \) inch and \( \frac{1}{3} \) inch

5. a square with sides of length \( \frac{5}{8} \) inch

6. a rectangle with a length of 3 inches and a width of \( \frac{1}{8} \) inch

7. a rectangle with a length of \( \frac{1}{5} \) yard and a width of \( \frac{2}{3} \) yard

8. a rectangle with a length of \( \frac{4}{9} \) foot and a width of 2 feet

9. Mrs. Henley built a cage for her bird. She wanted to cover the bottom of the cage with newspaper. If the cage is \( \frac{1}{4} \) yard by \( \frac{1}{2} \) yard, what is the area that needs to be covered?

   A \( \frac{1}{8} \) sq. yd   B \( \frac{1}{4} \) sq. yd   C \( \frac{1}{2} \) sq. yd   D 8 sq. yd

10. 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?