Area Models in Fractional Units
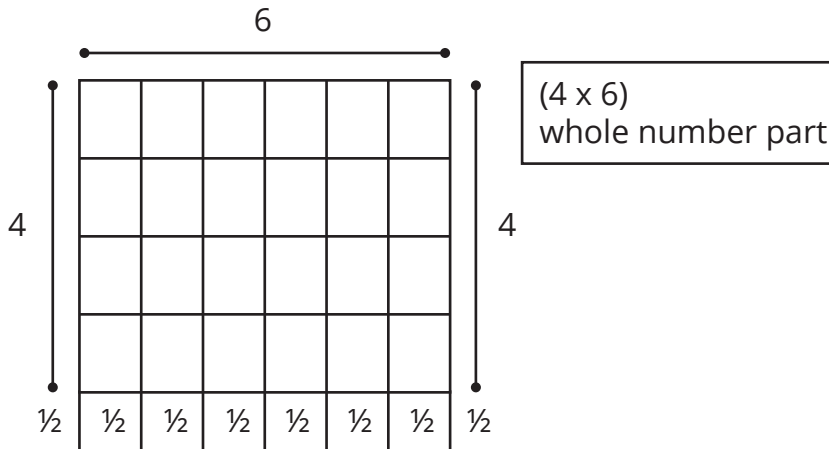
Name:_____   Date:_____

You can illustrate area for rectangles that have side lengths in fraction lengths by using an area model. Observe below. The Area is 27 units ^{2}; $(4 \times 6) + (6 \times \frac{1}{2}) = (24 + 3) = 27$ units^2

4 ½ units x 6 units = (4 x 6) + (6 x ½)   *using the distributive property of multiplication*

(4 x 6)
whole number part

(6 x ½)
fractional part

Directions: Use area models to find areas in the following exercises:

1) A rectangle with side A: 4½ units and side B: 2 units
2) A rectangle with side A: 1⅘ units and side B: 3 units
3) A rectangle with side A: 3⅛ units and side B: 5 units
4) A rectangle with side A: 6⅓ units and side B: 7 units
5) A rectangle with side A: 5⅔ units and side B: 2 units

Think About It:
   What makes an illustrated measurement useful?

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