

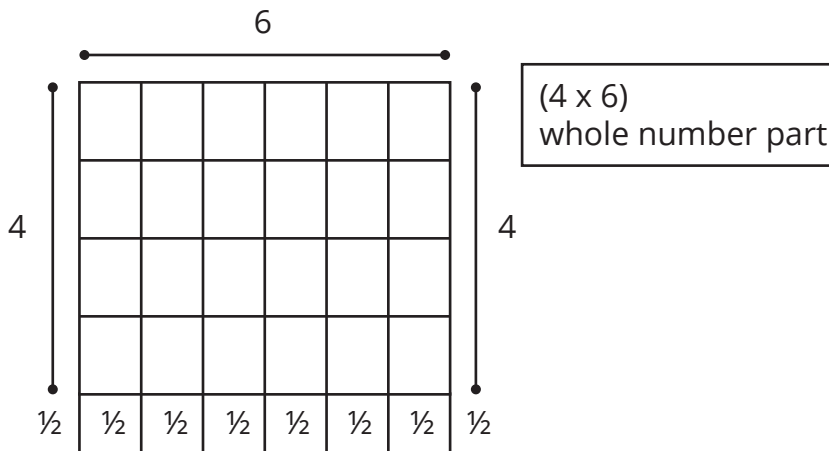
Area Models in Fractional Units

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 units²; $(4 \times 6) + (6 \times \frac{1}{2}) = (24 + 3) = 27$ units²

$4\frac{1}{2}$ units \times 6 units = $(4 \times 6) + (6 \times \frac{1}{2})$ using the distributive property of multiplication



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

- 1) A rectangle with side A: $4\frac{1}{2}$ units and side B: 2 units
- 2) A rectangle with side A: $1\frac{4}{5}$ units and side B: 3 units
- 3) A rectangle with side A: $3\frac{7}{8}$ units and side B: 5 units
- 4) A rectangle with side A: $6\frac{2}{3}$ units and side B: 7 units
- 5) A rectangle with side A: $5\frac{2}{3}$ units and side B: 2 units

Think About It:

What makes an illustrated measurement useful?
