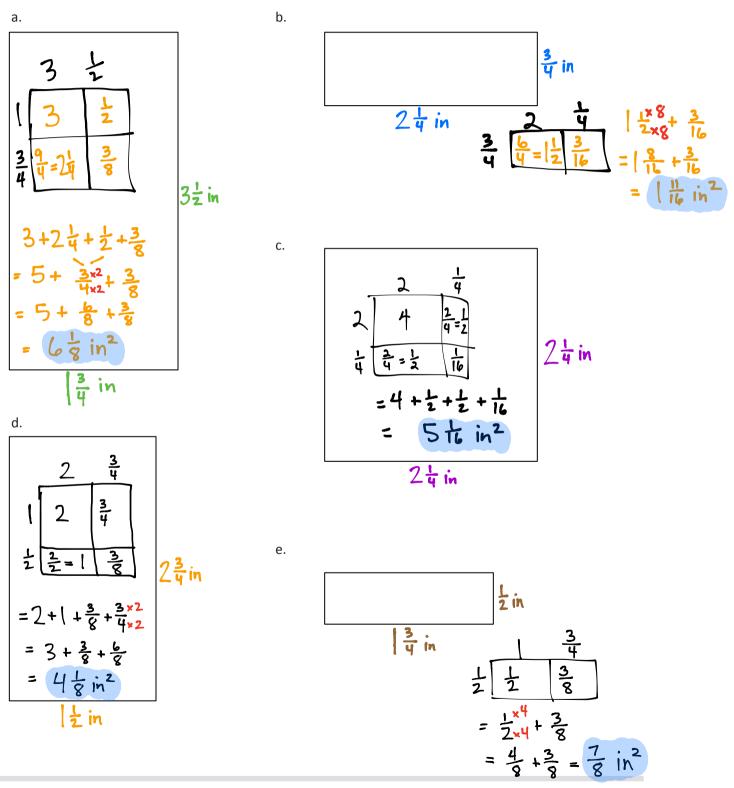
Name

Date

1. Measure each rectangle with your ruler, and label the dimensions. Use the area model to find the area.



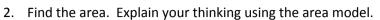
Lesson 12: Measure to find the area of rectangles with fractional side lengths. 1/10/14

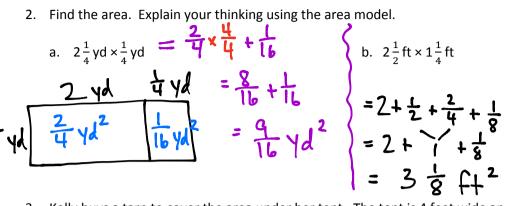
Date:

COMMON CORE

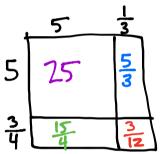
engage

F





3. Kelly buys a tarp to cover the area under her tent. The tent is 4 feet wide and has an area of 31 square feet. The tarp she bought is $5\frac{1}{3}$ feet by $5\frac{3}{4}$ feet. Can the tarp cover the area under Kelly's tent? Draw a model to show your thinking



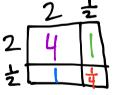
Ct x St = 25 + 5 + 5 + 5 $= 25 + [\frac{2}{3} + 3\frac{3}{4} + \frac{1}{4}]$ $= 30^{\frac{2}{3}} ft^{2}$

 $16\frac{1}{2}$ ft

Shannon and Leslie want to carpet a $16\frac{1}{2}$ ft by $16\frac{1}{2}$ ft square room. They can't put carpet under an 4. entertainment system that juts out. (See the drawing below.)

 $2\frac{1}{2} \times 2\frac{1}{2} = 6\frac{1}{4} ft^2$

In square feet, what is the area of the space with no carpet? a.



b. How many square feet of carpet will Shannon and Leslie need to buy? $|b_{2}^{\perp} \times |b_{2}^{\perp} = 256 + 8 + 8 + \frac{1}{4}$

CORF

COMMON Lesson 12: Date:

Measure to find the area of rectangles with fractional side lengths. 1/10/14

= 272 + 42

 $272\frac{1}{4} - 6\frac{1}{4} = 266 \text{ ft}^2$



They need to buy 266 ft² of carpet

 $16\frac{1}{2}$ ft

Entertainment

 $2\frac{1}{2}$ ft

System