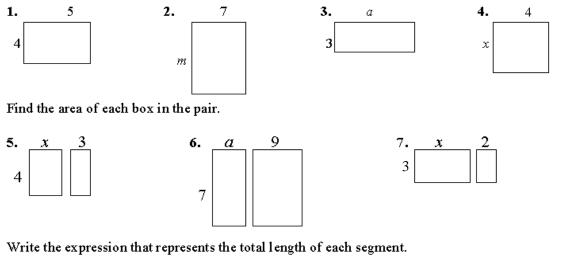
Common Core Georgia Performance Standards Framework

Seventh Grade Mathematics • Unit 2

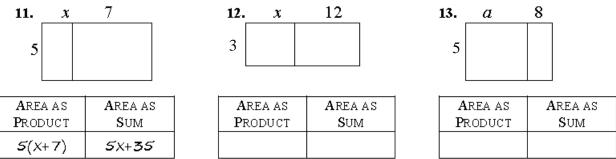
## SE Learning Task: Distributing and Factoring Area

Write the expression that represents the area of each rectangle.



8. x 9 9. x 4 10. a 2

Write the area of each rectangle as the product of  $length \times width$  and also as a sum of the areas of each box.



*Use the distributive property to find sums that are equivalent to the following expressions. (You may want to use a rectangle to help you)* 



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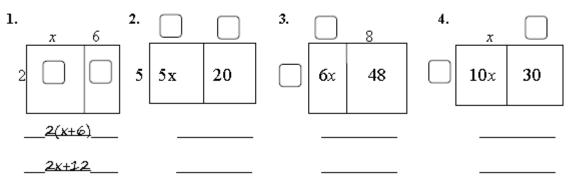
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20. -4(a - 4) =\_\_\_\_\_

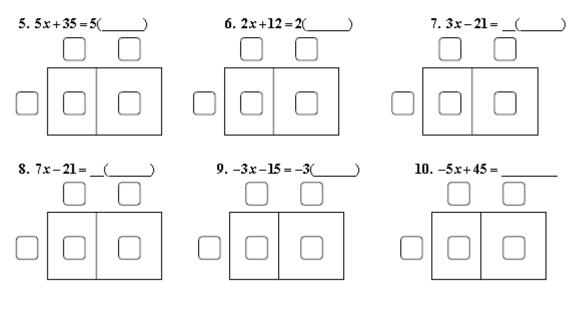
$$21.\frac{1}{2}(a-12) =$$
\_\_\_\_\_

## **Factoring Using Area Models**

Fill in the missing information for each: dimensions, area as product, and area as sum



Fill in the missing dimensions from the expression given.



Use rectangles to factor the following problems:

Factor these: 11. 4x - 16 = \_\_\_\_\_ 12. -7x - 35 = \_\_\_\_\_ 13. 9x - 81 = \_\_\_\_\_ 14. 4x + 18 = \_\_\_\_\_

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