# Georgia Department of Education 

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.
1.

2.

3.



Find the area of each box in the pair.
5.

6.



Write the expression that represents the total length of each segment.
8.

$\qquad$
9.


$\qquad$

Write the area of each rectangle as the product of length $\times \boldsymbol{w i d t h}$ and also as a sum of the areas of each box.
11.



| AREA AS | AREA AS |
| :---: | :---: |
| PRODUCT | SUM |
|  |  |


| AREAAS <br> PRODUCT | AREAAS <br> SUM |
| :---: | :---: |
| $5(x+7)$ | $5 x+35$ |

13. 



## Georgia Department of Education

Common Core Georgia Performance Standards Framework Seventh Grade Mathematics • Unit 2
20. $-4(a-4)=$ $\qquad$ 21. $\frac{1}{2}(a-12)=$ $\qquad$

## Factoring Using Area Models

Fill in the missing information for each: dimensions, area as product, and area as sum
1.


$\qquad$

$-2 x+12$
$\qquad$

Fill in the missing dimensions from the expression given.
5. $5 x+35=5($ $\qquad$ )

9. $-3 x-15=-3(\square$
10. $-5 x+45=$ $\qquad$


Use rectangles to factor the following problems:
Factor these:
11. $4 x-16=$
13. $9 x-81=$ $\qquad$ 14. $4 x+18=$ $\qquad$

