Name_____
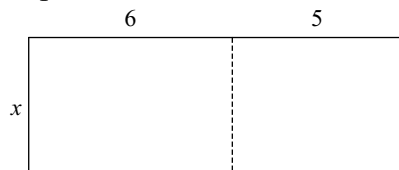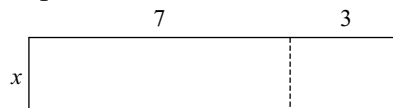
Distributive Property with Area Diagrams, Algebraic   Date_____ Period_____

Solve each problem.

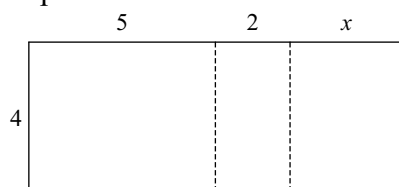1) The area of the outer rectangle can be expressed as $x(6 + 5)$. Can we also express the area as $x \times 6 + x \times 5$?
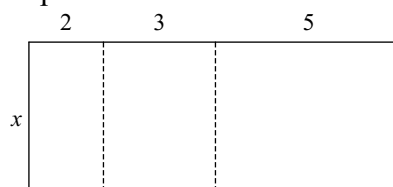
6	5
x	

2) The area of the outer rectangle can be expressed as $x(7 + 3)$. Can we also express the area as $x \times 7 \times 3$?

7	3
x	

3) The area of the outer rectangle can be expressed as $4(5 + 2 + x)$. Can we also express the area as $4 + 5 + 2 + x$?
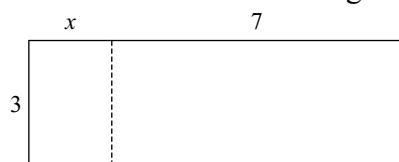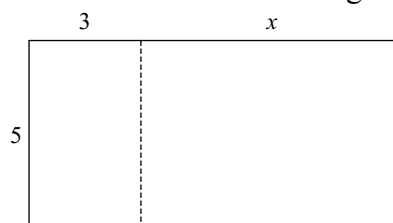
5	2	x
4		

4) The area of the outer rectangle can be expressed as $x(2 + 3 + 5)$. Can we also express the area as $x \times 2 + x \times 3 + x \times 5$?
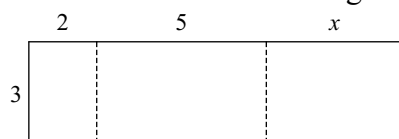
2	3	5
x		

5) The area of the outer rectangle can be expressed as $3(x + 7)$. How can we express express the same area as the sum of the areas of the smaller rectangles?

x	7
3	

6) The area of the outer rectangle can be expressed as $5(3 + x)$. How can we express express the same area as the sum of the areas of the smaller rectangles?
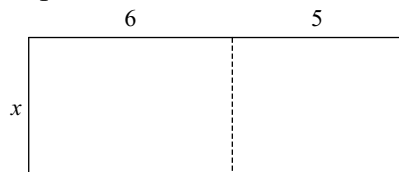
3	x
5	

7) The area of the outer rectangle can be expressed as $3(2 + 5 + x)$. How can we express express the same area as the sum of the areas of the smaller rectangles?

2	5	x
3		

Name_____

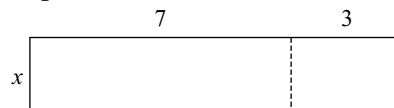# Distributive Property with Area Diagrams, Algebraic

Date_____ Period____

Solve each problem.

1) The area of the outer rectangle can be expressed as $x(6 + 5)$. Can we also express the area as $x \times 6 + x \times 5$?
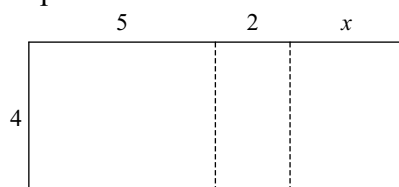
	6	5
x		

Yes

2) The area of the outer rectangle can be expressed as $x(7 + 3)$. Can we also express the area as $x \times 7 \times 3$?
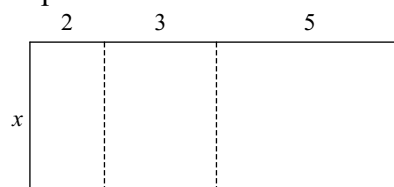
	7	3
x		

No

3) The area of the outer rectangle can be expressed as $4(5 + 2 + x)$. Can we also express the area as $4 + 5 + 2 + x$?

	5	2	x
4			

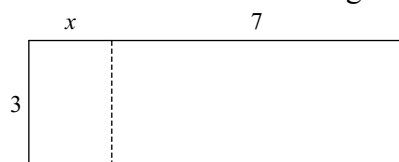No

4) The area of the outer rectangle can be expressed as $x(2 + 3 + 5)$. Can we also express the area as $x \times 2 + x \times 3 + x \times 5$?

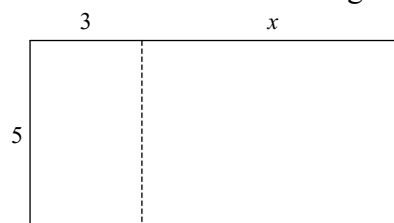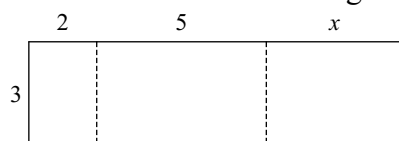|	2	3	5
x			

Yes

5) The area of the outer rectangle can be expressed as $3(x + 7)$. How can we express express the same area as the sum of the areas of the smaller rectangles?

	x	7
3		

$3x + 3 \times 7$

6) The area of the outer rectangle can be expressed as $5(3 + x)$. How can we express express the same area as the sum of the areas of the smaller rectangles?

	3	x
5		

$5 \times 3 + 5x$

7) The area of the outer rectangle can be expressed as $3(2 + 5 + x)$. How can we express express the same area as the sum of the areas of the smaller rectangles?

	2	5	x
3			

$3 \times 2 + 3 \times 5 + 3x$