11-1: Area of a Rectangle and Square

C.O.:_____

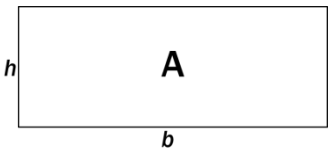
_____

L.O.:_____

_____

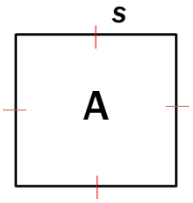
Theorem 11-1: The area of a rectangle equals the product of its base and height.

Equation:



Postulate 17: The area of a square is the _____.

Equation:



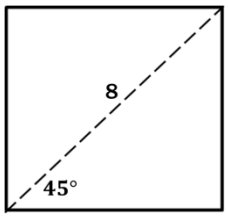
Postulate 18: If two figures are congruent, then they have the _____.

Postulate 19: The area of a region is the sum of the areas of its non-overlapping parts.

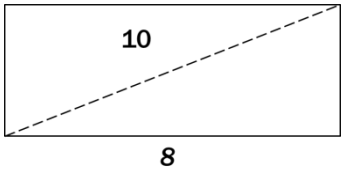
Area of $ABCD$ =

Practice:

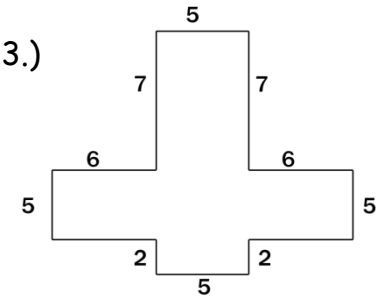
1.)



2.)



3.)



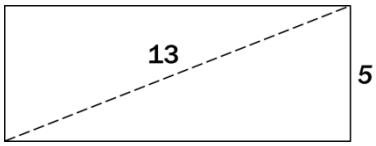
The chart below outlines the parts of a rectangle. Complete the Table.

b	8 cm	4 cm	12 m		$3\sqrt{2}$	$4\sqrt{2}$	$5\sqrt{3}$	$x+3$
h	3 cm	1.2 cm		5 cm	2	$\sqrt{2}$	$2\sqrt{3}$	x
A			36 m^2	55 cm^2				

11-1: Area of a Rectangle and Square

Group Practice: complete the following problems in your groups.

1.)



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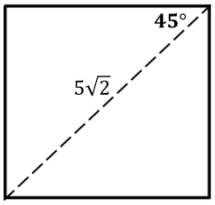

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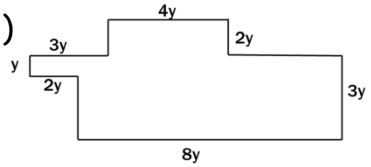
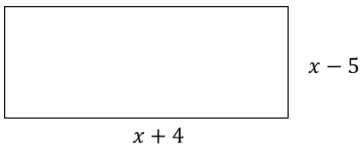
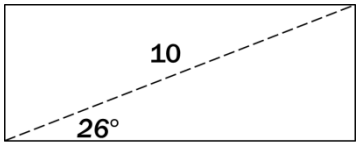


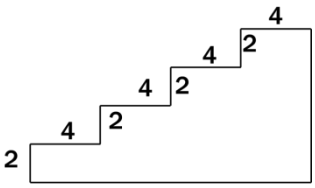
4.)



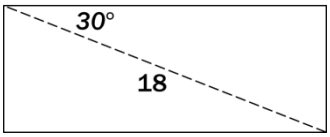
5.)



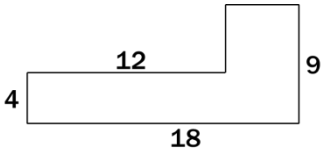
6.)



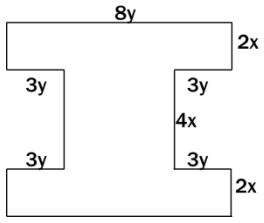
7.)



8.)



9.)



The chart below outlines the parts of a rectangle. Complete the Table.

b	9 cm	40 cm	16 cm	$x+5$	$a+3$	$k+7$	x	y^2+7y
h	4 cm	10 cm		x	$a-3$			x
A			48 cm^2			$4k+28$	x^2+3x	