Unit 2 Day 2 Area of a Square Assignment

Name: ______

Mistakes are expected, inspected, corrected and respected.

1.	Find	the a	area	of ev	very	squa	are t	hat	can l	be dı	rawr	n by	con	nec	ting	dots	s on a	3-do	ot by	3-do	ot g	grid.				
•	•	•			•		•	•	•	•	•	•		•	•	•		•	•			•	•	•	•	•
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•	•	•	•	•	•		•	•	•	•	·	•		•	•	•	•	•	•			•	•	•	•	•
2.	Draw	a he	exag	on w	ith a	an ar	rea c	of 16	i squ	are ı	units	5.														
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•											
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3.	Draw	Draw a square with an area of 2 square units.																								
Write an argument to convince a friend that the area is 2 units ² .																										
																	•	•	•							
4.	Cons What	Consider segment AB at right. Draw a square with side AB.																								
	Use a calculator to estimate the length of segment AB. • A - • •																									



5. Consider segment CD at left. Draw a square with side CD. What is the area of the square?

Use a calculator to estimate the length of segment CD.

6. Find the area and side length of this square.





For #7-34, do NOT use the $\sqrt{-}$ button on your calculator. For #7-9, estimate each square root to one decimal place.									
7. v 11	8. \{30 \}	9. √172							
10. Multiple Choice: Choose the pair of numbers $\sqrt{15}$ is between. A. 3.7 and 3.8 B. 3.8 and 3.9 C. 3.9 and 4.0 D. 14 and 16									
Find exact values for each square ro	oot.								
11. √ 144	12. √ 0 . 36	13. √ 961							
Find the two consecutive whole numbers the square root is between. 14. $\sqrt{27}$ 15. $\sqrt{1000}$									
Tell whether each statement is true									
16. 6 = $\sqrt{36}$	17. 1.5 = $\sqrt{2.25}$	18. 11 = $\sqrt{101}$							
Find the missing number. 19. $\sqrt{x} = 81$	20. 14 = \sqrt{x}	21. 25 = \sqrt{x}							
22. $\sqrt{x} = 3.2$	23. $\sqrt{x} = \frac{1}{4}$	24. $\sqrt{\frac{4}{9}} = x$							
Find each product.									
$25. \sqrt{2} \cdot \sqrt{2} \qquad 26. \sqrt{3}$	$\overline{3} \cdot \sqrt{3}$ 27. $\sqrt{4} \cdot \sqrt{4}$	$28. \sqrt{5} \cdot \sqrt{5}$							
Give both the positive and negative 29. 1	e square roots of each number. 30. 4	31. 2							
32. 16	33. 25	34. 5							
35. What is the side length of a squa	are whose area is 121 units ² ?								
36. Find x if $x^2 = 121$.									