Finite Di Assignme	fferences - [ent	Day 1			Name Date		
2 nd Dot P	Pattern		•	••	••	•	
	1	1	First Step	Second Step	Third	Step	
step	# of dots	1.	What are th	variables?			
		2.	Write an expression that can be used to determine the number of dots in the <i>n</i> th step?				
		3.	How many do pattern?	ots will there be	in the ninth fi	gure of the	

- 4. How many dots will there be in the eleventh figure of the pattern?
- 5. Which figure would have 36 dots?
- 6. What is an appropriate domain?
- 7. What is an appropriate range?

Finite Differences - Day 1 Name _____ Date _____Period __ Assignment 2nd Square Pattern First Step Second Step Third Step # of step squares What are the independent and dependent variables? 8. 9. Write an expression that can be used to determine the number of dots in the *n*th step? How many dots will there be in the eighth figure of the 10. pattern?

- 11. How many dots will there be in the twelfth figure of the pattern?
- 12. Which figure would have 41 dots?
- 13. What is an appropriate domain?
- 14. What is an appropriate range?

Finite Dif Assignme	ferences - Do nt	Name Date	Period				
3 rd Square Pattern							
		Fi	rst Step	Second Step	Third S	tep	
step	# of squares	15.	What are the independent and dependent variables?				
		16.	Write an expression that can be used to determine the number of dots in the <i>n</i> th step?				
		17.	How mar pattern?	ny dots will there l	be in the ninth	figure of the	

18. How many dots will there be in the twelfth figure of the pattern?

- 19. Which figure would have 50 dots?
- 20. What is an appropriate domain?

21. What is an appropriate range?