Name	
Date	Period

Lesson 2.1.1 Tile Pattern Investigation Packet

Pattern A

3 that were	ored pencil and on t e not in Figure 2. Wigure 2 that were no	ith the same colored	at Figure 3 and colo	or in the new tiles the are 2 and color in th	at were added to Figure new tiles that were
Sketch the	next figure in the s	equence (Figure 4)	on the grid below.		
Figure 0 is	s the name of the fig	gure that comes befo	re Figure 1. Sketch F	igure 0 on the grid b	elow.
	Figure 0	Figure 1	Figure 2	Figure 3	Figure 4
F					
attern A					
y=mx+b for same as the	orm. How many tile e number of tiles th	es are being added to at are being added).	t, to the number of till each Figure? How many tiles are in that is the equation (r	The m in y=mx+ in Figure 0?	b is the growth (the The b in your

How many tiles will be in the 100th figure? Show or explain how you figured it out.

Figure 3 that	t were not in Figur	on the grid below, let re 2. With the same ere not in Figure 1.	ook at Figure 3 and colored pencil, look	l color in the new til at Figure 2 and colo	les that were added or in the new tiles
Sketch the n	ext figure in the s	equence (Figure 4) o	on the grid below.		
Figure 0 is t	he name of the fig	gure that comes before	re Figure 1. Sketch F	igure 0 on the grid b	elow.
	Figure 0	Figure 1	Figure 2	Figure 3	Figure 4
attern B					
attern B					

How many tiles will be in the 100th figure? Show or explain how you figured it out.

The growth of tile Pattern	is represented	oy the	equation	y=3x+1	. Use the	mary
figure in Pattern C is grow Use the rule to fi	ring by (also the	m in u	ie equatio	on y=mx	also the	v many h in the
tiles are in Figure 0?	Fill in the to	hle hel	ow for Pa	ttern C	also the	o m un
thes are in rigure or	Till ill the ta	ioic oci	0W 101 1 2	ittern C.		
	Figure #	0	1	2	3	4
	# of Tiles					
Where do you look in the	equation/rule to	see the	e growth?			
Where do you look in the Where do you look in the	equation/rule to equation/rule to	see the	growth?	value?		
Where do you look in the Where do you look in the Imagine that the group ne	equation/rule to equation/rule to	see the	e growth?	value?	, but they	refuse
Where do you look in the Where do you look in the	equation/rule to equation/rule to	see the	e growth?	value?	, but they	refuse
Where do you look in the Where do you look in the Imagine that the group ne	equation/rule to equation/rule to	see the	e growth?	value?	, but they	refuse
Where do you look in the Where do you look in the Imagine that the group ne	equation/rule to equation/rule to	see the	e growth?	value?	, but they	refuse
Where do you look in the Where do you look in the Imagine that the group ne	equation/rule to equation/rule to	see the	e growth?	value?	, but they	refuse

Pick a new o	colored pencil and	l on the grid below, l	ook at Figure 3 and	l color in th	e new	tiles th	at were	added	to
Figure 3 that	t were not in Figu	are 2. With the same were not in Figure 1.	colored pencil, look	at Figure 2	and c	olor in	the ne	w tiles	that
Sketch the n	ext figure in the s	sequence (Figure 4) of	on the grid below.						
Figure 0 is t	he name of the fig	gure that comes before	re Figure 1. Sketch F	igure 0 on th	he grid	below			
	Figure 0	Figure 1	Figure 2	Figure	e 3		Figure	e 4	
									H
Pattern D									$\overline{\mathbf{H}}$
Pattern D									
				H + +					
les are being	added to each Figure	gure number, x, to the nu ? The m in y=r The b in your equ	nx+b is the growth (the s	same as the nur	nber of	tiles that	t are bein	ig added).
iles are being How many tile his pattern (sta	added to each Figure s are in Figure 0?art with y=)?	The b in your equence to show	nx+b is the growth (the station/rule is the number	ame as the nur of tiles in Figu	nber of re 0. W	tiles that hat is the	t are being e equation	ng added n (rule) f). for
iles are being How many tile his pattern (sta Jse the sam hat same nu Get a differe	added to each Figure s are in Figure 0? art with y=)? e colored pencil t umber in your equent colored pencil	The m in y=1 The b in your equence to show action/rule.	nx+b is the growth (the station/rule is the number which tiles were growth tiles in Figure 0. Figure 0. Figure 1.	eame as the nur of tiles in Figu owing in Pat and where the	nber of re 0. What tern D	tiles that hat is the	t are being e equation	ng added n (rule) f	or
iles are being How many tile his pattern (sta Use the sam hat same nu Get a differe equation/rul	added to each Figure s are in Figure 0? art with y=)? e colored pencil t umber in your equent colored pencil	The m in y=1 The b in your equence that you used to show that action/rule. and color in all of the there you see the same	nx+b is the growth (the station/rule is the number which tiles were growth tiles in Figure 0. Figure 0. Figure 1.	eame as the nur of tiles in Figu owing in Pat and where the	nber of re 0. What tern D	tiles that hat is the	t are being e equation	ng added n (rule) f	or
iles are being How many tile his pattern (sta Jse the sam hat same nu Get a differe equation/rul Fill in the ta	added to each Figure es are in Figure 0? art with y=)? e colored pencil to the colored pencil to the colored pencil e. Now shade who ble at the right for cormation in your	The m in y=1 The b in your equence that you used to show that action/rule. and color in all of the there you see the same	e tiles in Figure 0. Finumber in your equa	of tiles in Figure #	nber of re 0. Whatern D	and sh	ade who	ere you	o. for
iles are being How many tile his pattern (sta Use the sam hat same nu Get a differe equation/rul Fill in the ta Does the infoattern?	added to each Figure es are in Figure 0? art with y=)? ee colored pencil to the colored pencil to th	The m in y=1 The b in your equence to show action/rule. and color in all of the ere you see the same reparted to the color in all of the color in	es in the tile	owing in Pate and where the stion/rule. Figure # # of Tiles y	nber of re 0. What same	and sh	ade who	ere your	see
iles are being How many tile his pattern (sta Jse the sam hat same nu Get a differe equation/rul Fill in the ta Does the infoattern? Look at the ta	added to each Figure es are in Figure 0? art with y=)? e colored pencil to the colored pencil to the colored pencil e. Now shade who ble at the right for cormation in your entered to the colored pencil to the colored pencil et at the right for cormation in your entered to the colored pencil to the colored pencil et at the right for cormation in your entered to the patterns, what	The m in y=r The b in your equence to show the state of the same o	e tiles in Figure 0. Finumber in your equations in the tile	owing in Patential of tiles in Figure # # of Tiles # of Tiles # of C?	nber of re 0. Whatern D	and sh	ade who	g added, n (rule) f	see