domain and range of graphs

darm-Up

HW Check Notes -Foldable p.26 Assignment: #1-6

Test 2 Corrections &
Bathroom Passes due
Wed 5PM

Quiz Friday!

essential

946Stion How can I

describe graphs using domain and range?

warm-up tuesday

stack on the shelf.	Each case	Is 1.2cm	tall. F	Record your	data in th	e table	below.
	+1+						
				Helgh	t of Stack	-	-

of DVDs Height of Stack (cm)

0
1
2
3
4

B. Write two ordered pairs for data in your table, and explain what each ordered pair means.

Urdered Pair:	means:	
Ordered Pair:	Means	

C Create a scatterplot of your data on the grid below.

1	7	:	:	:	;	:	:	:					
•	Nagrit et	Stack	:				:						
		į	i										
		<u></u>	L	<u>.</u>			;						
7		:	:		:		:						
		:	:	!	:	!	:	:					
		<u></u>					·						
		;	:	;	:	;	:						
		:	:	;	:	;	:						
-1				;		:	:						
		:	:	:	:	:	:	!					
.,		į	<u>.</u>	<u>.</u>	<u></u>								
			i		;		;						
		;	;	;	;	:		;					
4		<u>!</u>		<u> </u>		-	# of DVDs						
D	Usin	a Inforr	mation o	containe	ed In elf	ther vol	ur table	or your	scatterplot	predict	the held	ht of a st	ack that
	ontains												
			- nun-			10.0	un-		100	DVDs			
			DIUS			10 0	WUS		. 100	DVUS		•	

E What if you are told that a stack of DVDs is 30 cm high? How many DVD cases would you expect to find in the stack? Explain how you got your answer.

Number of DVDs:	_Eplain:	

Complete the
"Exit Slip". Read
the questions
carefully and
answer every
question! Have
your HW out
and ready to
check.

Algebra I - Unit 2: Topic 1 - Patterns

Practice - Patterns No Textbook Correlation
Name Date Per

If n represents a number's position in a sequence, write the first 5 terms described by each expression.

1. 2n + 7

2. n(n-6)+2

Find the term number when it takes 103 blocks to build.

Match each sequence with its rule on the right.

3. -4, -3, -2, -1, 0

A x+5

4. 6, 9, 14, 21, 30

B x - 5

5. 6, 7, 8, 9, 10

C $x^2 + 5$

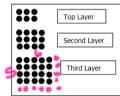
6. Pam needs to make a tower of soup cans as a display in a supermarket. Each layer of the tower will be in the shape of a rectangle as shown. The length and width of each layer will be one less than the layer below it.

A. How many cans will be needed for the fourth layer?



B. What is the total number of cans needed for an 8-layer tower?





Sara planted rows of tulips in her garden, as shown in the table. Which expression best shows the number of tulips per row, r.
 A. 3 - r

Row Number	Number of Tulips
1	3
2	6
3	9
4	12

B. r+3

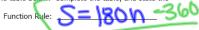
C. 3

D. 3r



 A geometry class was exploring the sum of the interior angles, S, of polygons as compared to the number of sides, n, that the polygon has They's corded their data in the table below. Complete the table, and state the function rule.

1	- דעפו	
A e Tr	67	181
3	180	1 Oil
4	360	. 0
5	540	
6	720	
7	900	
8	1080	
9	1260	





180 = 186(3) +?

Algebra I - Unit 2: Topic 1 - Patterns

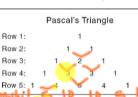
9. The top-count views of a block pattern are shown below. How many blocks does it take to build figure 10?

- A 4 B 5 C 19
- D 23



10. The figure below shows a partial view of Pascal's triangle. Which row of numbers best represents the seventh row in Pascal's triangle?

- 1 5 10 10 5 1
- 1 6 15 20 15 6 1
- 1 7 21 35 35 21 7 1
- 1 8 28 56 70 56 28 9 1



11. John delivers newspapers every morning in his neighborhood. He gets paid based on the number of hours, x, that he works. This table reflects John's pay scale.

Number of Hours Worked	Wages
1	\$10
2	\$18
3	\$26
4	\$34

Which equation represents the number of dollars, $\it w$, he will be paid for doing $\it x$ hours of work?

- A W = 2X + 8B W = 10 + 8x
- C w = 34 8x
- D w = 2 + 8x

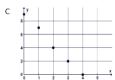
12. The table below shows how the weight of an ice cube changes as it melts in the sun.

Time (min)	0	1	2	3	4
Weight (g)	9	8	5	2	0

Which graph below best represents the data in the table?









domain and range p.26 essential question

How can I describe graphs using domain and range?

Fold each side in so it looks like the picture to the right. Then cut each flap.

continuous	discrete
D	R
0	A
М	N
A	G
N	E
open circle	closed circle

discrete
R
N
G
E
closed circle

ex y	connected (can draw without picking up pencil)	disconnected (dots) scatter	ex
The domain of a relation is the set of all inputs or x-coordinates DILIR DILIR Tomain gres Francischer Teight	2012 2012 2012 2012 2012 2012 2012 2012	Domain: 2247	The range of a relation is the set of all outputs or y-coordinates. Range goes rom Bottom to Top"
NO LINE LEAT DOWN AMON TO INSTITUTE		<u></u>	equal to to ant/up Arrow-> infinity

Algebra I - Unit 2: Topic 2 - Domain & Range of Graphs Practice - Domain & Range of Graphs pp 236-242 Find the domain and range of the following graphs. Domain Domain Range Range Continuous or Discrete Continuous or Discrete Domain Domain Range Range Continuous or Discrete Continuous or Discrete 6. -9 -8 -7 -6 -5 -4 -3 -2 -L1 Domain Domain Range Range

Continuous or Discrete

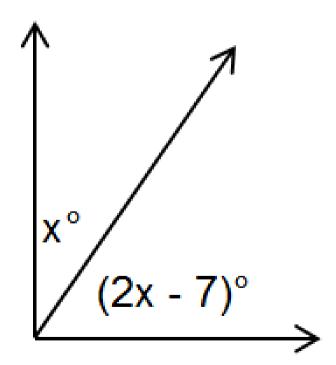
Continuous or Discrete



on a sticky note, solve the following problem

BE SURE TO WRITE YOUR NAME

1. Using the diagram, find the measure of both angles



hw check:

domain and range of graphs

1. Domain: $\{x \mid x = -6, -4, 0, 3\}$

Range: $\{y \mid y = -4, -2, 2, 5\}$

Discrete

3. Domain $\{x \mid x \in \mathbb{R} \}$

Range: $\{y \mid y \in \mathbb{R} \}$

Continuous

5. Domain: $\{x \mid -8 < x \le 7\}$

Range: $\{y | -7 \le y \le 9\}$

Continuous

2. Domain: $\{x | -6 \le x < 1\}$

Range: $\{ y | -7 \le y \le 9 \}$

Continuous

4. Domain: $\{x \mid -2 \le x \le 1\}$

Range: $\{ y \mid -9 \le y \le 6 \}$

Continuous

6. Domain: $\{x \mid -6 \le x \le 2\}$

Range: { y | $-8 \le y \le 8$ }

Continuous

Note: $\{x \mid -\infty < x < \infty\}$ is equivalent to $\{x \mid x \in \mathbb{R} \}$