





My Homework

Go online for Step-by-Step Solutions



Use Math Tools Complete each function table. (Examples 1-3)

Ť	Input (x)	3x + 5	Output	10
	0	3.0+5	5	-
	3	3.3+5	14	
	9	3.9+5	32	

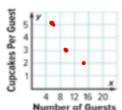
2.	Input (x)	x - 4	Output
	4	4-4	0
	8	8-4	4
	11	11-4	7

3.	Input (x)	x+2	Output
	0	0+2	2
		1+2	3
	6	612	8

		-4	÷2
4.	Input (x)	2x + 4	Output
	7	27+4	18
	9	2.9+4	22
	15	2.15+4	34

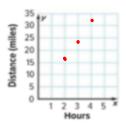
Whitney has a total of 30 cupcakes for her guests. The function rule, 30 ÷ x where x is the number of guests, can be used to find the number of cupcakes per guest. Make a table of values that shows the number of cupcakes each guest will get if there are 6, 10, or 15 guests. Then graph the function. (Examples 1 and 2)

Number of Guests (x)	30 ÷ <i>x</i>	Cupcakes per Guest (y)
6	30÷6	5 (6,5
10	30+10	3
15	30+15	2



6. Bella rollerblades 8 miles in one hour. The function rule that represents this situation is 8x, where x is the number of hours. Make a table to find how many hours she has skated when she has traveled 16, 24, and 32 miles. Then graph the function. (Examples 3 and 4)

Hours (x)	8x	Miles (y)
2	€ ∙ ∑	16
3	8.3	24
4	8.4	32



7. Refer to Exercise 6. How many miles would Bella travel if she skated for 7 hours? 7 = 56 miles

	Name
VIDEO NOTES	Unit Lesson Due Date

Function Rules . 7 - 2

Use words and symbols to describe the value of each term as a function of its position. Then find the value of the Subtract three tenth term in the sequence.

1. Position (n) nValue of Term

Function rule: _n_3 Value of 10th term:

Multiply by six

2. **Position** Value of Term Function rule: 6n Value of 10th term:

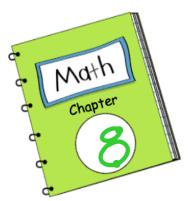
3.

Weeks Overdue (x)	Fee (\$)	
1 -	3	~1x241
2	5	3 SX5 +1
3 🕳	7	£ 3×2+1
4 -	9	7
X		

Times two plus one

Function rule: ²ⁿ⁺¹

Value of 10th term: 21



TETLE: Functions

Date	Lesson	Topic/Assignment
4/12	1	Function Tables In-Glass Notes
4/13	1	HOMEWORK: Homework Practice WS
4/13	I	CLASSWORK: Pg583 WS
4/14	2	Function Rules Video Notes and In-Glass Notes
4/15	2	HOMEWORK: Practice WS
4/15	2	CLASSWORK: Extra Practice WS
4/16	3	Functions and Equations In-Class Notes
4/16	3	GLASSWORK: Pg 599 WS

More Examples of Finding Function Rules, Lesson 2

1. Describe the relationship between the terms in the arithmetic sequence 7, 14, 21, 28, Then write the next three terms.

Rule: Add 7

Next 3 terms: 35,42,49

Arithmetic sequence: Add (or subtract) to each term to get the next one

More Examples of Finding Function Rules, Lesson 2

2. Describe the relationship between the terms in the geometric sequence 2, 4, 8, 16, Then write the next three terms.

Rule: Multiply by 2

Next 3 terms: 32,64,128

Geometric sequence: Multiply (or divide)
each term to get the next one

More Examples of Finding Function Rules, Lesson 2

3. Use words and symbols to describe the value of each term as a function of its position. Then find the value of the tenth term.

Position	1	2	3	4	n
Value of Term	3	6	9	12	

Words: Multiply by 3

Symbols: 3n=3:10=30



Example for expression using n: "n-3" or "5n" rds and symbols to describe the value of each term as a function of its position. Then find the th term in the sequence. Position 2 3 4 5 n Value of Term 8 12 16 20						DATE		PERIOD
rds and symbols to describe the value of each term as a function of its position. Then find the the term in the sequence. Position 2 3 4 5 n Value of Term 8 12 16 20 Rule in words: Expression using n: Position 8 9 10 11 n Value of Term 14 15 16 17 Rule in words: Expression using n: Fosition 11 12 13 14 n Value of 16 th term: Position 11 12 13 14 n Value of Term 4 5 6 7 Rule in words: Expression using n: Fosition 11 12 13 14 n Value of 16 th term: Rule in words: Expression using n: Fosition 11 12 13 14 n Value of Term 4 5 6 7	pter 8 Le	ssor	า 2	Pr	ac	tice		
Position	tion Rules			Е	xamp	e for expression using	n: "n-3" or "	5n"
Value of Term			the v	value	of ea	ch term as a function	of its positio	on. Then find the
Position 8 9 10 11 n		2 8	3	4				
Position	tule in words:							
Value of Term 14 15 16 17 Jule in words: Expression using n: 11 12 13 14 n Value of Term 4 5 6 7	alue of 16th ter	m:						
Rule in words:	Position	8	9	10	11	n		
Position 11 12 13 14 n	Value of Term	14	15	16	17			
Position	tule in words: _							
Position 11 12 13 14 n Value of Term 4 5 6 7	Expression usin	g n:						
Value of Term 4 5 6 7 Rule in words:								
Rule in words: Expression using n: Value of 16 th term: Position 21 22 23 24 n	Position	11	12	13	14	n		
Expression using n:	Value of Term	4	5	6	7			
Position 21 22 23 24 n	Rule in words: _							
Position 21 22 23 24 <i>n</i>								
	aiue oi 16th ter	·m:						
Value of Term 12 13 14 15	Position	21	22	23	24	n		
	Value of Term	12	13	14	15			
	Rule in words: _							

NAME	DATE	PERIOD
Determine how the next term is	n each sequence can be found. Then f	ind the next two terms in the sequence.
5. 3, 16, 29, 42,	6. 21, 25, 29, 33,	7. 1.2, 3.5, 5.8, 8.1,
Rule:,	Rule:,,	Rule:
Find the missing number in each	ch sequence.	
8. 5, \square , 10, $12\frac{1}{2}$,	9. 11.5, 9.4, , 5.2,	10. 40, \square , 37 $\frac{1}{3}$, 36,
11. MEASUREMENT There are space at the right, make a t rule relating the number of years for 1, 2, 3, and <i>n</i> year in weeks if she is 11 years	able and write a function weeks to the number of rs. Then find Hana's age	
Rule:	weeks	
		ere are 5 cells. At 1 P.M., there are 10 cells. At 2 continues, how many cells will there be at 7
At 7 p.m., there will be _	cells.	