Sequences and Functions Test Review $\mbox{$H$\sc N}$

Know your vocab!

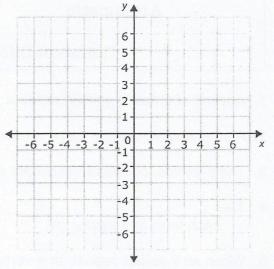
Fill in the blank from the word bank.

	Function	Relation	Domain	Range
	Arith	metic	Geometric	Term
		Common Differ	ence Comn	non ratio
1. A	ny set of ordered	pairs is called a		
2. A	sequence where	the same number is	s added to each term	is
3. T	he y-values, or ou	tput values are call	ed the	ali dis discilistiguo cest
4. T	he each term in a s	equence.	is the r	number that is multiplied to
5. V	Vhen no x-values r	epeat, or a vertical	line passes through a	a graph only once, the
	relation is called	la		
3. T	he set of x-values	or the input values	are called the	·
7. T	he number that is	added to each term	n in a sequence the _	
			<u> </u>	
8. A	ny number in a se	quence is called a	Landa de la companya	
9. A	sequence where	the same number is	s multiplied to each te	erm is
				mon difference or ratio. The to get to the next term.
10.	11.5, 7.5, 3.5,	-0.5		
	Type of sequen	ce	Common d	ifference or ratio
	Expression	N	lext 3 terms	
11.	-2, 12, -72, 432	2		
	Type of sequen	ce	Common d	ifference or ratio
	Expression	Ne>	ct 3 terms	_11

- 12. Find the 7th term in the sequence 3, 15, 75, 375...
- 13. Write an equation to represent the following:

Two less than three times a number equals another number

Then make a function table listing ordered pairs and graph them on the coordinate plane.



14. Which table contains solutions to the equation y = -4x + 1?

A

X	У
-2	9
0	-1
2	-9

B

X	У	
1	-5	
0	-4	
2	-2	

C

X	V
-3	13
3	-11
2	9

Γ

X	у
-1	5
0	1
1	-3

15. Which equation represents the following table?

Х	6	8	12	20
V	8	9	11	15

a.
$$x + 2 = y$$

b.
$$2x - 4 = y$$

c.
$$\frac{1}{2}x + 5 = y$$

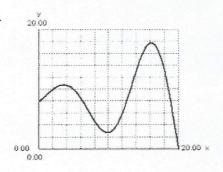
d.
$$3x - 10 = y$$

16. Circle each relation that is a function.

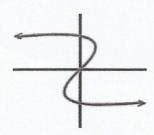
- a. {(2,4), (3,7), (4,9), (5,10)}
- b.

X	0	6	8	12
У	2	2	2	2

C.

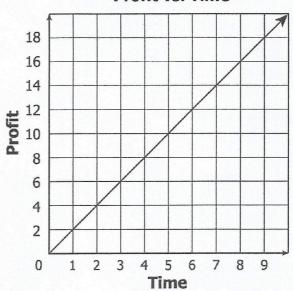


d.



17. The graph displays the relationship between time and profit.

Profit vs. Time



Which equation represents the relationship between time (t) and profit (P)?

$$\mathbf{A} \quad P = \frac{1}{2}t$$

$$\mathbf{B} \quad P = t$$

$$P = 2t$$

D
$$P = 3t$$