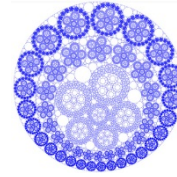


Ready, Set, Go!



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Ready

Topic: Exponents

Find each value.

1. 3^1 2. 3^2 3. 3^3 4. 3^4

Topic: Substitution and function notation

5. $f(x) = 2x - 1$ find $f(1)$, $f(2)$, and $f(3)$ 6. $f(x) = 3^x$; find $f(1)$, $f(2)$, and $f(3)$

7. $Next = 2(Now) + 3$; If the first term (Now) is 5, what are the next four terms in the sequence?

8. Complete each table.

Term	1st	2nd	3 rd	4th	5th	6th	7th	8th
Value	2	4	8	16	32			

Term	1st	2nd	3 rd	4th	5th	6th	7th	8th
Value	66	50	34	18				

Term	1st	2nd	3 rd	4th	5th	6th	7th	8th
Value	-3	9	-27	81				

Term	1st	2nd	3 rd	4th	5th	6th	7th	8th
Value	160	80	40	20				

Term	1st	2nd	3 rd	4th	5th	6th	7th	8th
Value	-9	-2	5	12				



Set

Topic: Completing a table

Fill in the table. Then write a sentence explaining how you figured out the values to put in each cell. Explain how to figure out what will be in cell #8.

9. You run a business making birdhouses. You spend \$600 to start your business, and it costs you \$5.00 to make each birdhouse.

# of birdhouses	1	2	3	4	5	6	7
Total cost to build							

Explanation:

10. You borrow \$500 from a relative, and you agree to pay back the debt at a rate of \$15 per month.

# of months	1	2	3	4	5	6	7
Amount of money owed							

Explanation:

11. You earn \$10 per week.

# of weeks	1	2	3	4	5	6	7
Amount of money earned							

Explanation:

12. You are saving for a bike and can save \$10 per week. You have \$25 already saved.

# of weeks	1	2	3	4	5	6	7
Amount of money saved							

Explanation:



Go

Topic: Solve equations

9. Solve the following equations for the unknown variable.

a. $3(x - 1) = 2(x + 3)$

b. $7(x + 20) = x + 5$

c. $9(x - 2) = 3x + 3$

d. $2\left(a - \frac{1}{3}\right) = \frac{2}{5}\left(a + \frac{2}{3}\right)$

e. $3(x + 3) - 2(x - 1) = 0$

