READY, SET, GO!

Name

Period

Date

READY

Topic: Comparing linear and exponential models.

Comparing different characteristics of each type of function by filling in the cells of each table as completely as possible.

	y = 4 + 3x	$y = 4(3^{x})$
1. Type of growth		
2. What kind of sequence corresponds to each model?		
3. Make a table of values	x y	
4. Find the rate of change		
5. Graph each equation.	18	18
Compare the graphs.	15	16
What is the same?	12	12
What is different?	5 10 15 20	10 8 6 4 2 2 7 10 15 20
6. Find the y-intercept for		
each function.		

- 7. Find the y-intercepts for the following equations
 - a) y = 3x
 - b) y = 3x
- 8. Explain how you can find the y-intercept of a linear equation and how that is different from finding the y-intercept of a geometric equation.

SET

Topic: Finding Patterns.

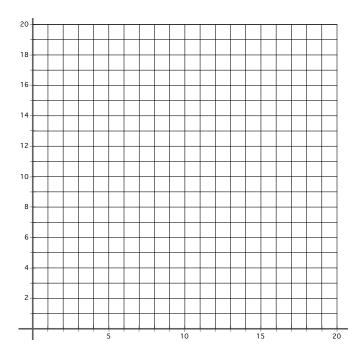
Use the sequence of figures to answer questions 9 - 11.

△ stage



stage 1

9. Graph.



10. Table

	# of
Stage	small
	triangles
1	
2	
2 3	
4	
4 5	
:	
10	

11. Write an explicit function to describe the pattern

GO

Topic: Solving one-step equations with justification.

Recall the two properties that help us solve equations.

The Additive property of equality states:

You can add any number to both sides of an equation and the equation will still be true.

The Multiplicative property of equality states:

You can multiply any number to both sides of an equation and the equation will still be true.

Solve each equation. Justify your answer by identifying the property(s) you used to get it.

blve each equation. Justify your answer by identifying the property(s) you used to get it.				
Example 1: $x - 13 = 7$ Justification				
+13 +13 additive property of	f equality			
x + 0 = 20 addition				
x = 20 additive identit	y (You added 0 and got x.)			
J.				
Example 2: $5x = 35$ Justification				
Example 2: $5x = 35$ Justification $\frac{5}{5}x = \frac{35}{5}$ multiplicative property of equality (multiplied by $\frac{1}{5}$)				
1x = 7 multiplicative identity (A number multiplied by its reciprocal = 1)				
12. $3x = 15$ Justification	13. $x - 10 = 2$ Justification			
12. $\frac{3\lambda - 13}{3}$ Justification	10. N 10 2 Justification			
14. $-16 = x + 11$ Justification	15. $6 + x = 10$ Justification			
16. $6x = 18$ Justification	17. $-3x = 2$ Justification			