Name \_\_\_\_\_

\_\_ Period \_\_\_\_ Date \_\_\_\_

# FUNCTIONS: ANALYZING A



Test Writers Guidelines Zip File Functions E

F: Analyzing A

Nam	e Period Date
2	Select all that apply
	<b>Example Stem:</b> Which equation defines <i>p</i> as a function of <i>t</i> ?
	A. $p = 3t + 2$ B. $t = 3p + 2$ C. $p = 0t + 2$ D. $t = 0p + 2$
3	<b>Example Stem 1:</b> Select <b>all</b> ordered pairs that correspond to input- output pairs for the function $y = -6x + 7$ .
	A. (1, 1) B. (-1, 1) C. (-6, 7) D. (3, -11)
4	<b>Example Stem 2:</b> A swimming pool had 30 gallons of water in it. Then water was added to the pool at a rate of 5 gallons per second.
	The function $y = 5t + 30$ describes the relationship between the number of gallons, y, and the number of seconds water was added, t.
	Select <b>all</b> of the ordered pairs that correspond to input-output pairs for the function.
	A. (45, 3) B. (3, 45) C. (0, 30) D. (30, 0)
	0. (50, 0)



Name	e Period Date
5	Example Stem 1: Consider the function represented by this table of values. $ \frac{x  y}{-4  -10} $ $ \frac{-3  -7}{-2  -4} $ $ \frac{-1  -1}{0  2} $ Which function could have produced the values in the table? A. $y = -x - 14$ B. $y = -3x + 2$ C. $y = 3x - 22$ D. $y = 3x + 2$
6	<b>Example Stem 2:</b> A swimming pool has 30 gallons of water in it. Water is added to the pool at a rate of 5 gallons per second. Which equation models the relationship between $W$ , the number of gallons of water, and $t$ , the number of seconds water is being added to the swimming pool? A. $W = 30t + 5$ B. $W = 5t + 30$ C. $W = t + 35$ D. $W = 35t$







<b>Example Stem:</b> Several functions Determine whether each function of			
Function	Could be linear	Cannot be linear	
$y = \frac{3}{4}x + 2$			
60			
40			
0 20 40 60			
x         y           -2         5           -1         9           0         13           1         17			
2 21			
Grades 6-8, Claim 2 Example Item 2B.1c (Grade 8): Primary Target 2B (Content Domain F), Seconda	ary Target 1E (CCSS 8.F.A)		Assessme
This table shows some values of a linear function $x$ $y$ -1 $-51$ $-13$ $3$		× 8 6 4 2 -6 -4 -2 0	2 4 6 8 ► X
Use the Add Arrow tool to draw the graph of a c function that has the <b>same</b> rate of change as th one shown in the table of values.	lifferent	-2	



Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_



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Period \_\_\_\_ Date \_\_\_\_

F: Analyzing B

# FUNCTIONS: ANALYZING B





Name _	Period Date	
2	770	
	Look at the graph of the linear equation.	
	7 <sup>+</sup> 5-	
	3	
	-7 -5 -3 -10 1 3 5 7 ×	
	-5-	
	Write an equation for the line in slope-intercept form.	







Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

# FUNCTIONS: ANALYZING C

The distance (d) travels in t second	in meters a car nds is shown in			tanc	e vs.	Ti	me	
the table.								
d	t	80 -						
10	1	<b>a</b> <sup>70</sup>						-
20	2	<b>E</b> 60-						
30	3	<b>9</b> 50-						
40	4	- 00 - 05 - 05 - 06 - 06 - 06 - 06 - 06 - 06 - 06 - 06						
50	5	<b>D</b> 30-						
Jse the Add Arro	ow tool to graph	- 20-						
the proportional	relationship	10-						
petween the dist raveled by a car	and the time	0	1 2	3 4	5 6	5 7	7 8	<b>→</b> t
				<b>J</b> .		5 S		
(t).					e (sec			
(t).	tions that can be represent	ed by a straight li		Time	e (sec	:)		ordina
( <i>t</i> ).		ed by a straight li		Time	e (sec	:)		ordina
( <i>t</i> ). 25 Select <b>all</b> the equation $\frac{1}{x} + y = 9$		ed by a straight li		Time	e (sec	:)		ordina
( <i>t</i> ). 25 Select <b>all</b> the equation $\frac{1}{x} + y = 9$ x = 16 + 3y		ed by a straight li		Time	e (sec	:)		ordina
( <i>t</i> ). 25 Select <b>all</b> the equation $\frac{1}{x} + y = 9$ x = 16 + 3y $x = -2y^2 + 7$		ed by a straight li		Time	e (sec	:)		ordina
(t). 25 Select <b>all</b> the equa	tions that can be represent	ed by a straight li		Time	e (sec	:)		ordina



Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

