Name \_\_\_\_\_

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

F: Analyzing A

# FUNCTIONS: ANALYZING A



Test Writers Guidelines Zip File Functions E

Name	e Period Date	
2	Select all that apply <b>Example Stem:</b> Which equation defines $p$ as a function of $t$ ? A. $p = 3t + 2$ B. $t = 3p + 2$ C. $p = 0t + 2$ D. $t = 0p + 2$	A, B and C
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)	A and D
ų	Example Stem 2: 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 all 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)	B and C

F: Analyzing A

Name	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. $y = 3x + 2$	D
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. $W = 35t$	В







Name		Period _	Date	<sup>9</sup>	
8	<b>Example Stem:</b> Several functions are represented in the table. Determine whether each function could be linear.				L N
	Function	Could be linear	Cannot be linear		L
	$y = \frac{3}{4}x + 2$				
	60 40				
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
9 Claim 2	Grades 6-8, Claim 2 <b>Example Item 2B.1c (Grade 8):</b> Primary Target 2B (Content Domain F), Secondary Target 1E (C				
	This table shows some values of a linear function. $ \begin{array}{c c} x & y \\ \hline -1 & -5 \\ 1 & -1 \\ \hline 3 & 3 \end{array} $	x			
	Use the Add Arrow tool to draw the graph of a <b>different</b> function that has the <b>same</b> rate of change as the one shown in the table of values.		-2 -4 -6 -8		



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



Name \_\_\_\_\_ Period \_\_\_\_ Date \_\_\_\_ FUNCTIONS: ANALYZING B <u>Graph</u> ] X Add Point Add Arrow (Delete 755 8 John and Kim wrote down two different functions that have the same rate of change. 6 John's function is represented 4 by the table shown. 2 V -5 -1 X -6 -4 2 1 -1 -8 -2 4 6 8 3 3 -2 Use the Add Arrow tool to graph a function that could be Kim's function. -4 -6 -8-



Name Date	_
2 Look at the graph of the linear equation. V $V$ $V$ $V$ $V$ $V$ $V$ $V$ $V$ $V$	y = -1/3x







Name \_\_\_\_\_

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# FUNCTIONS: ANALYZING C





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

