Test, Form 1B

Write the letter for the correct answer in the blank at the right of each question.

1. Which of the following sets of values completes the function table?

	Input (x)	3x - 1	Output (y)
	2	3(2) - 1	
	3	3(3) - 1	
	4	3(4) - 1	
0, 1, 2		C	. 5, 6, 7
5, 8, 11	D. 6, 9, 12		

2.	Mrs. Miller is buying hot dog b	uns	5
	for a cookout. Using the table a	ls a	
	guide, how many packages will	sh	е
	need to buy to have 48 buns?		
	F. 6	H.	10

Hot Dog Buns		
Number of Packages	Number of Buns	
2	16	
4	32	

Use the table below for Exercises 3 and 4.

Position	1	2	3	4	n
Value of Term	3	6	9	12	

3. What is the rule to find the value of the missing term?

A. $\frac{3}{n}$ **B.** 3n **C.** n + 2 **D.** n + 3

I. 12

4. What is the value of the twelfth term in the sequence?
F. 9
G. 15
H. 24
I. 36

5. The graph shows the total cost of pizzas from a pizzeria. Which equation can be used to find the total cost *y* for any number of pizzas *x*?

A. $y = 10x$	C. $y = x - 10$
B. $y = \frac{x}{10}$	D. $y = x + 10$

6. Admission to the county fair is \$5. It costs an additional \$0.50 for each ride ticket. Which equation represents the cost of going to the fair and buying any number of ride tickets?

F. c = 0.5tH. c = 5tG. c = 0.5t + 5I. c = 0.5 + 5t

Course 1 • Chapter 8 Functions and Inequalities



В

3.

4.

Α.

B.

G. 8

DATE _

Test, Form 1B (continued)

Use the following information for Exercises 7–9. Malia earns \$5 for every hour that she babysits.
7. Which equation can be used to find t, the total amount Malia will

- earn after babysitting h hours?
- D 7. **B.** t = 5 + h**A.** h = 5 + t**C.** h = 5t**D.** t = 5h**8.** How much will Malia earn if she babysits for 8 hours? Н **F.** \$10 **G.** \$25 **H.** \$40 **I.** \$50 8. 9. Which set of ordered pairs represents the relationship between the number of hours Malia babysits and the money she earns? **A.** (5, 1), (10, 2), (15, 3), (20, 4) **C.** (1, 5), (2, 15), (3, 25), (4, 30)В **B.** (1, 5), (2, 10), (3, 15), (4, 20) **D.** (0, 5), (1, 10), (2, 15), (3, 20) 9. **10.** Which of the following is a solution of the inequality $y - 5 \ge 8$? F **F.** 15 **G.** 12 **H.** 10 **I.** 8 10. _ **11.** The inequality $h \ge 48$ represents the minimum Heights (in.) height *h* necessary to ride a certain roller Miguel 42coaster. Who can ride the roller coaster? Patrick 45**A.** Sara only 48 Anna **B.** Anna only 52Sara C. Anna and Sara С **D.** Anna, Patrick, and Miguel 11. **12.** Which inequality is graphed below? Н **F.** t > 2**G.** t < 2**H.** t > 2**I.** t < 212. **13.** Zachary can spend at most \$100 on new clothes. Which inequality represents this situation? С **A.** *s* < 100 **B.** *s* > 100 **C.** $s \le 100$ **D.** $s \ge 100$ 13. **14.** Which of the following inequalities has the solution shown below? 0 1 2 3 4 5 6 7 8 G **F.** $2x \le 8$ **G.** 2x < 8**H.** $2x \ge 8$ **I.** 2x > 814. Solve each inequality. 15. $6 + x \le 17$ Α **A.** $x \le 11$ **B.** $x \ge 11$ **C.** $x \le 23$ **D.** $x \le 23$ 15. _ **16.** $4x \ge 12$ F **F.** $x \ge 3$ **G.** *x* ≤ 12 **H.** $x \ge 48$ **I.** $x \le 48$ **16.** 17. $\frac{x}{8} < 8$ В 17. **A.** *x* > 64 **B.** *x* < 64 **C.** x > 1**D.** *x* < 1

184

Course 1 • Chapter 8 Functions and Inequalities