NAME _____ DATE _____ PERIOD _____

Practice – Function tables and Inequalities

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	

A. 0, 1, 2 **C.** 5, 6, 7
B. 5, 8, 11 **D.** 6, 9, 12

1._____

2. Mrs. Miller is buying hot dog buns for a cookout. Using the table as a guide, how many packages will she need to buy to have 48 buns?

F. 6 **H.** 10
G. 8 **I.** 12

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

2. _____

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.** $n + 3$

3. _____

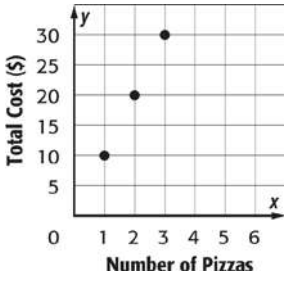
4. What is the value of the twelfth term in the sequence?

F. 9 **G.** 15 **H.** 24 **I.** 36

4. _____

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.** $y = x + 10$



5. _____

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. $c = 0.5t$ **H.** $c = 5t$
G. $c = 0.5t + 5$ **I.** $c = 0.5 + 5t$

6. _____

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Practice – Function tables and Inequalities

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?
A. $h = 5 + t$ **B.** $t = 5 + h$ **C.** $h = 5t$ **D.** $t = 5h$ **7.**_____

8. How much will Malia earn if she babysits for 8 hours?
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)
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 $y - 5 \geq 8$?
F. 15 **G.** 12 **H.** 10 **I.** 8 **10.** _____

11. The inequality $h \geq 48$ represents the minimum height h necessary to ride a certain roller coaster. Who can ride the roller coaster?
A. Sara only
B. Anna only
C. Anna and Sara
D. Anna, Patrick, and Miguel

Heights (in.)	
Miguel	42
Patrick	45
Anna	48
Sara	52

11. _____

12. Which inequality is graphed below?

F. $t \geq 2$ **G.** $t \leq 2$ **H.** $t > 2$ **I.** $t < 2$ **12.** _____

13. Zachary can spend at most $100 on new clothes. Which inequality represents this situation?
A. $s < 100$ **B.** $s > 100$ **C.** $s \leq 100$ **D.** $s \geq 100$ **13.** _____

14. Which of the following inequalities has the solution shown below?

F. $2x \leq 8$ **G.** $2x < 8$ **H.** $2x \geq 8$ **I.** $2x > 8$ **14.** _____

Solve each inequality.

15. $6 + x \leq 17$
A. $x \leq 11$ **B.** $x \geq 11$ **C.** $x \leq 23$ **D.** $x \leq 23$ **15.** _____

16. $4x \geq 12$
F. $x \geq 3$ **G.** $x \leq 12$ **H.** $x \geq 48$ **I.** $x \leq 48$ **16.** _____

17. $\frac{x}{8} < 8$
A. $x > 64$ **B.** $x < 64$ **C.** $x > 1$ **D.** $x < 1$ **17** _____