Name:
Per:
__KEY

1) Which of the following sets of values completes the function table?
A) $0,1,2$
B) $5,8,11$
C) $5,6,7$
D) $6,9,12$

| Input <br> $(x)$ | $\mathbf{3 x - 1}$ | Output <br> $(y)$ |
| :---: | :---: | :---: |
| 2 | $3(2)-1$ |  |
| 3 | $3(3)-1$ |  |
| 4 | $3(4)-1$ |  |

## Use the table below for questions 2-4.

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?
A) 16
B) 18
C) 10
D) 12

| $\mathbf{x}$ (packages) | 1 | 2 | 3 | 4 | $n$ |
| :--- | :--- | :--- | :--- | :---: | :---: |
| $\mathbf{Y}$ (buns) | 3 | 6 | 9 | 12 | $\square$ |

3) What is the rule to find the value of the missing term?
A) $y=\frac{3}{x}$
B) $y=3 x$
C) $\mathbf{y}=x+2$
D) $\mathbf{y}=x+3$
4) What is the value of $y$ if $x$-value is 8 (using the equation you used in \#3)?
A) 9
B) 15
C) 24
D) 36

Use the following information for questions 5-6. Malia earns \$5 for every hour that she babysits.
5) 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) $h=5 t$
D) $t=5 \mathrm{~h}$
6) How much will Malia earn if she babysits for 8 hours?
A) $\$ 10$
B) $\$ 25$
C) $\$ 40$
D) $\$ 50$
7) Which of the following is a solution to the inequality $b<7.6$ ?
A) 7.5
B) 7.6
C) 7.8
D) None of these
8) Which of the following is a solution of the inequality $y-5 \geq 8$ ?
A) 8
B) 10
C) 12
D) 15

A) $t \geq 2$
B) $t \leq 2$
C) $t>2$
D) $t<2$
10) 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
D) Anna, Patrick \&
Miguel
C) Anna \& Sara

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

11) 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) $s \geq 100$
12) Which table matched the equation $y=6.2 x$ ?
A)

| X | 3 | 4 | 5 | 6 |
| :--- | :--- | :--- | :--- | :--- |
| Y | 18.6 | 24 | 14.4 | 20.6 |

B)

| X | 6.2 | 12.4 | 18.6 | 24.8 |
| :--- | :--- | :--- | :--- | :--- |
| Y | 1 | 2 | 3 | 4 |

C)

| X | 5 | 6 | 7 | 8 |
| :--- | :--- | :--- | :--- | :--- |
| Y | 31 | 36 | 49 | 48.2 |

D) | $X$ | 2 | 4 | 6 | 8 |
| :--- | :--- | :--- | :--- | :--- |
| $Y$ | 12.4 | 24.8 | 37.2 | 49.6 |

13) How many solutions does the inequality $x \geq 4$ have?
A) None
B) One, $x$ can only equal 4
C) Five, $x$ can equal $0,1,2,3 \& 4$
D) Infinitely many solutions
