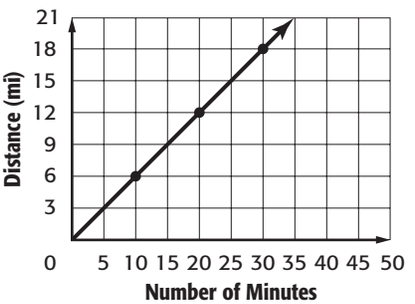
NAME _____ DATE _____ PERIOD _____

Test, Form 1B

SCORE _____

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

1. The graph shows the distance a cheetah ran. A giraffe ran at a rate of 0.25 mile per minute. Which statement about their speeds is true?



A. The cheetah traveled 0.6 mile per minute.

B. The cheetah traveled 3 miles per minute.

C. The cheetah was twice as fast as the giraffe.

D. The cheetah and the giraffe traveled at the same rate.

1. A

2. What is $f(7)$ if $f(x) = -4x + 9$?

F. -19 **G.** -4 **H.** 4 **I.** 37

2. F

3. Which table represents a linear function?

A.

x	1	2	3	4
y	0	2	6	12

B.

x	-2	0	2	4
y	4	2	1	$\frac{1}{2}$

C.

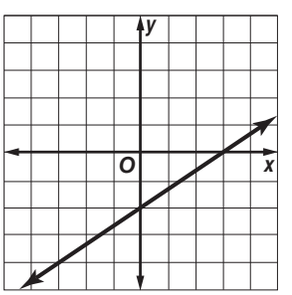
x	-3	-2	-1	0
y	5	3	1	-1

D.

x	-4	0	4	8
y	1	4	9	16

3. C

4. Which function is graphed at the right?



F. $y = -\frac{3}{2}x - 2$ **H.** $y = -\frac{2}{3}x - 2$

G. $y = \frac{3}{2}x - 2$ **I.** $y = \frac{2}{3}x - 2$

4. I

5. Which function matches the function table at the right?

x	$f(x)$
-3	-14
0	-2
3	10

A. $f(x) = 4x - 2$ **C.** $f(x) = 2x + 4$

B. $f(x) = 5x + 1$ **D.** $f(x) = 4x + 2$

5. A

6. Graphs that represent situations that may not have numerical values are called?

F. linear **G.** nonlinear **H.** quadratic **I.** qualitative

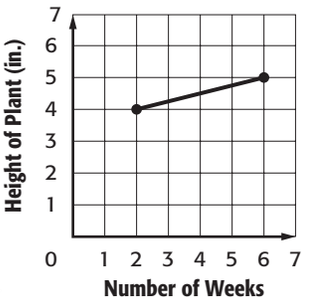
6. I

NAME _____ DATE _____ PERIOD _____

Test, Form 1B *(continued)*

SCORE _____

7. A plant is a certain height. The height of the plant is measured for several weeks. The graph shows the height of the plant for each week. Which statement is true?



A. The plant grew 1 inch per week.

B. The plant grew 0.75 inch per week.

C. The initial height of the plant was 4 inches.

D. The initial height of the plant was 3.5 inches.

7. D

8. What is $f(4)$ if $f(x) = 2x - 2$?

F. 6 **G.** 10 **H.** 12 **I.** 14

8. F

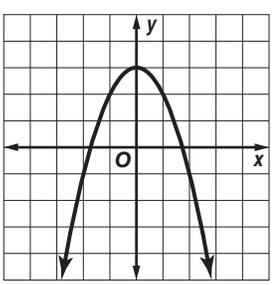
9. What is the domain of the relation $\{(-2, 4), (1, 3), (0, -4), (3, 2)\}$?

A. $\{0, 1, 2, 4\}$ **C.** $\{-2, 0, 1, 3\}$

B. $\{-4, -2, 2, 3\}$ **D.** $\{-4, 2, 3, 4\}$

9. C

10. Which equation represents the graph at the right?



F. $y = x^2 + 3$ **H.** $y = -3x^2$

G. $y = -x^2$ **I.** $y = -x^2 + 3$

10. I

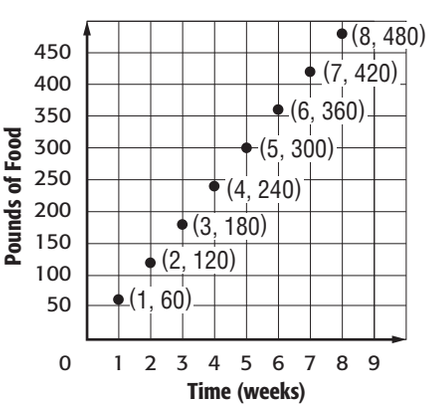
11. Student tickets cost \$5.75 each, and adult tickets cost \$8.50 each. Which equation can be used to find the total cost c of any number of adult tickets t?

A. $c = 8.5t$ **C.** $c = 5.75t$

B. $t = 8.5c$ **D.** $t = 5.75c$

11. A

12. The graph shows the amount of food Ian's rabbits eat each week. Which equation can be used to find the number of pounds y eaten after any number of weeks x?



F. $y = 120x$

G. $y = 60x$

H. $y = 30x$

I. $y = 15x$

12. G