NAME _____ DATE _____ PERIOD _____

Test, Form 2B

SCORE _____

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

1. Which ordered pair is *not* a point on the graph of $y = -5x + 2$?

A. $(-1, 6)$ **B.** $(0, 2)$ **C.** $(-2, 12)$ **D.** $(2, -8)$

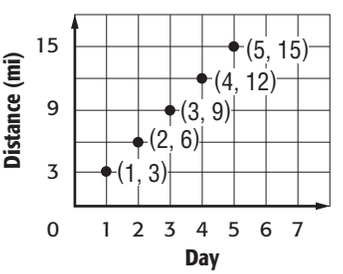
1. A

2. What is $f(-3)$ if $f(x) = \frac{1}{3}x$?

F. 3 **G.** 1 **H.** -1 **I.** -3

2. H

3. The graph at the right shows Lanna's total distance in miles for each day she is training for a marathon. What is her distance on day 10?



A. 21 miles **C.** 30 miles

B. 27 miles **D.** 33 miles

3. C

4. Which table represents a linear function?

F.

x	5	2	-1	-4
y	6	7	10	12

H.

x	4	6	9	15
y	3	4	5	6

G.

x	-2	0	2	4
y	0	1	2	3

I.

x	7	4	1	-2
y	-1	-3	-6	-10

4. G

5. Kayla's monthly cost of sending text messages can be represented by the function $y = 0.07x$, where y represents the total cost and x represents the number of text messages. The table shows Aubrey's monthly cost of sending text messages. Which statement is *not* true?

Messages	Cost ($)
30	18
40	19
50	20
60	21

A. Kayla pays $10.50 for sending 150 text messages.

B. Aubrey pays $30 for sending 150 text messages.

C. Aubrey pays more per text than Kayla.

D. Kayla's initial cost is greater than Aubrey's initial cost.

5. D

6. Which of the following represents a nonlinear function?

F. $y = 4x^2$ **G.** $y = x$ **H.** $y = -9x$ **I.** $y = 8x + 10$

6. F

NAME _____ DATE _____ PERIOD _____

Test, Form 2B *(continued)*

SCORE _____

7. Roberto has a certain number of songs on his MP3 player. Each week, he plans to add 4 more songs. After 5 weeks, he had 40 songs on his MP3 player. Which statement is true?

A. Roberto adds 5 songs on his MP3 player per week.

B. Roberto adds 10 songs on his MP3 player per week.

C. The initial number of songs on Roberto's MP3 player is 10.

D. The initial number of songs on Roberto's MP3 player is 20.

7. D

8. State the domain and range for the following relation.
{(4, −1), (3, 2), (0, −3), (1, 4)}

8. domain: {0, 1, 3, 4}; range: {−3, −1, 2, 4}

9. Complete the function table for $f(x) = 3x + 2$.

9.

x	$f(x)$
−2	−4
−1	−1
0	2
1	5

For Exercises 10 and 11, consider the following situation.

The grocery store sells bacon for $5.30 per pound.

10. Write a function to represent the situation.

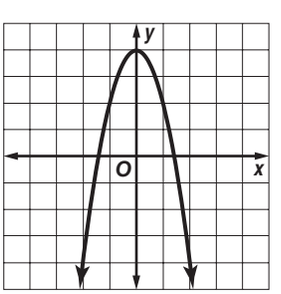
10. $c = 5.3p$

11. Is the function continuous or discrete? Explain.

11. continuous; You can have a fraction of a pound when you weigh bacon.

12. Graph $y = -2x^2 + 4$.

12.



13. The value of a football card has increased steadily over time. Sketch a qualitative graph of the situation.

13.