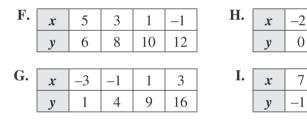
Write the letter for the correct answer in the blank at the right of each question.

DATE

50

0

- 1. Which ordered pair is *not* a point on the graph of $y = \frac{1}{2}x 7$?
 - **A.** $\left(1, -6\frac{1}{2}\right)$ **B.** (-2, -8) **C.** (0, -7) **D.** (2, 8)
- **2.** What is f(-2) if $f(x) = \frac{1}{2}x$? **F.** –2 **G.** –1 **H.** 0
- **3.** The graph at the right shows Jeremy's distance from home each hour he is on a car trip. How many miles will he be from home after 10 hours?
 - **A.** 350 miles **C.** 500 miles **B.** 400 miles **D.** 550 miles
- 4. Which table represents a linear function?



5. Juana's monthly cost of sending text messages can be represented by the function y = 0.05x, where y represents the total cost and x represents the number of text messages. The table shows Tanya's monthly cost of sending text messages. Which statement is *not* true?

Messages	Cost (\$)
20	10
30	11
40	12
50	13

= x

I. 1

+(4, 200)

+(3, 150)

3 4 5 6 7

4

6

-2

-9

Time (h)

2

3

1

-6

(2, 100)

(1.50)

2

1

0

1

4

-3

A. Tanya's initial cost is greater than Juana's initial cost.

B. Tanya pays more per text than Juana.

C. Juana pays \$7.50 for sending 150 text messages.

- **D.** Tanya pays \$20 for sending 150 text messages.
- 6. Which of the following represents a nonlinear function?

F.
$$y = 5x + 7$$
 G. $y = x^2$ **H.** $y = -2x$ **I.** y

1.

2.

3.

PERIOD

SCORE



6.



4

89

NAME	DATE	PERIOD
Test, Form 2A (continued)		SCORE
 7. Nate has a certain number of songs on his MI plans to add 2 more songs. After 5 weeks, he player. Which statement is true? A. Nate adds 5 songs on his MP3 player per v B. Nate adds 10 songs on his MP3 player per C. The initial number of songs on Nate's MP 	had 25 songs on his MP3 week.	
D. The initial number of songs on Nate's MP	3 player is 2.	7
8. State the domain and range for the following {(-4, 4), (1, 2), (0, 3), (3, 2)}	relation.	8
9. Complete the function table for $f(x) = -2x + 1$ For Exercises 10 and 11, consider the following The grocery store sells cantaloupes for \$4.50 per	g situation.	9. $\begin{array}{c c} x & f(x) \\ \hline -2 & \\ 0 & \\ 1 & \\ 2 & \\ \end{array}$
10. Write a function to represent the situation.	pound.	10
11. Is the function continuous or discrete? Explain 12. Graph $y = x^2 - 2$.	n.	11 12

13. The value of a painting has increased steadily over time. Sketch a qualitative graph to represent this situation.

13._____