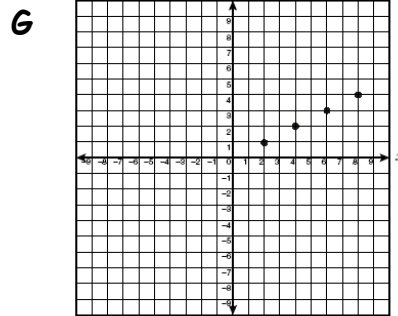
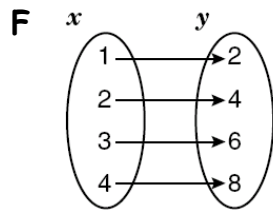


Student Expectations A.1.D Questions

1. The function  $f(x) = \{(1, 2), (2, 4), (3, 6), (4, 8)\}$  can be represented in several other ways. Which is NOT a correct representation of the function  $f(x)$ ?



**H**  $x$  is a natural number less than 5 and  $y$  is twice  $x$

**J**  $y = 2x$  and the domain is  $\{1, 2, 3, 4\}$

2. Jerome received a gift card for \$20 worth of video rentals from a video store. If the cost of renting a video is \$2.50, which table best describes  $b$ , the balance remaining on the gift card after he rents  $n$  videos?

**F**

$n$	$b$
0	\$20.00
1	\$17.50
2	\$15.00
4	\$10.00
6	\$5.00

**G**

$n$	$b$
0	\$20.00
2	\$17.50
4	\$15.00
6	\$12.50
8	\$10.00

**H**

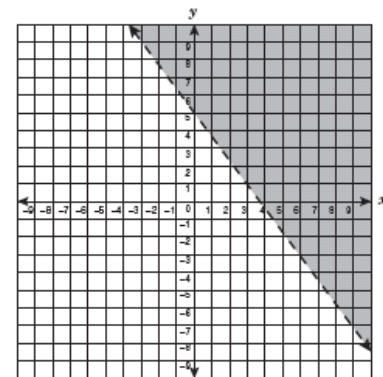
$n$	$b$
1	\$17.50
2	\$15.00
3	\$13.50
4	\$11.00
5	\$8.50

**J**

$n$	$b$
0	\$20.00
1	\$15.00
4	\$10.00
6	\$2.50
8	\$0.00

3. Which inequality best describes the graph shown below?

- A**  $y > -\frac{3}{4}x + 5$   
**B**  $y < -\frac{4}{3}x + 5$   
**C**  $y < -\frac{3}{4}x + 5$   
**D**  $y > -\frac{4}{3}x + 5$



Student Expectations A.1.D Questions

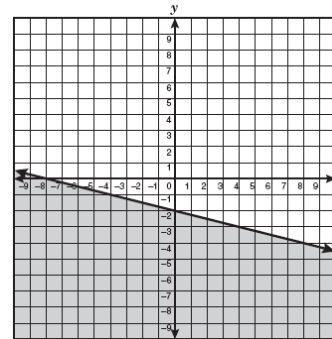
4. Which of the following inequalities best describes the graph shown below?

A  $y \leq -\frac{1}{4}x - 8$

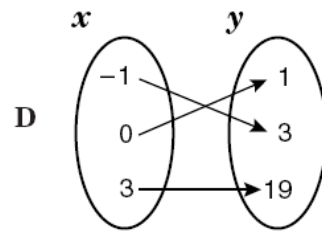
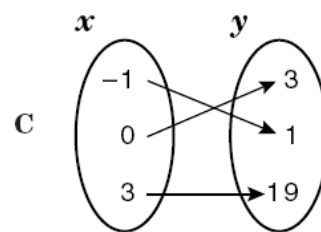
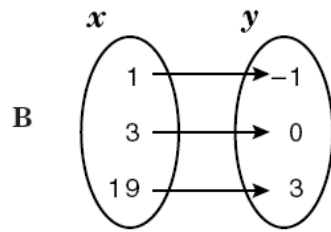
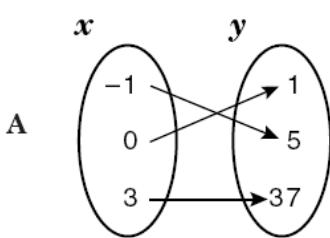
B  $y \leq -\frac{1}{4}x - 2$

C  $y \geq -\frac{1}{4}x - 8$

D  $y \geq -\frac{1}{4}x - 2$



5. Which mapping best represents the function  $y = 2x^2 + 1$  when the replacement set for  $x$  is  $\{-1, 0, 3\}$ ?



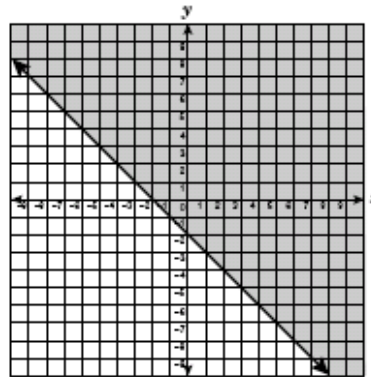
6. Which inequality best describes the graph shown below?

F  $y \geq -2x$

G  $y \geq -x - 2$

H  $y \geq -2x - 2$

J  $y \geq x - 2$



7. Which data set is best described by the function  $y = -2x^2 + 5x$ ?

F

x	y
-4	-52
-1	-3
2	2
3	9
6	-42

G

x	y
-5	-75
-3	-33
1	7
4	52
6	-42

H

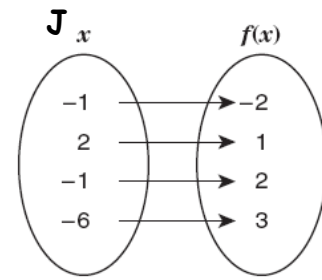
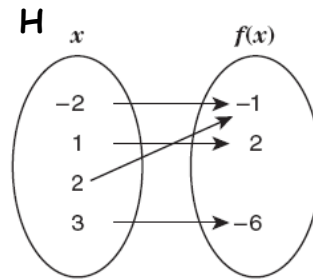
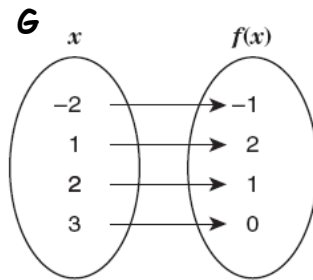
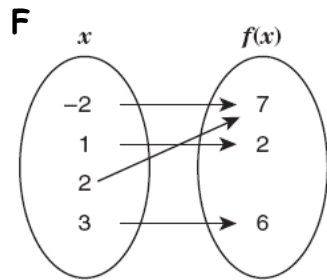
x	y
-3	-33
-1	-7
2	2
3	-3
5	-25

J

x	y
-2	-18
2	-2
5	-24
6	-42
8	-88

Student Expectations A.1.D Questions

8. Which of the following mappings best represents the function  $f(x) = -x^2 + 3$ ?



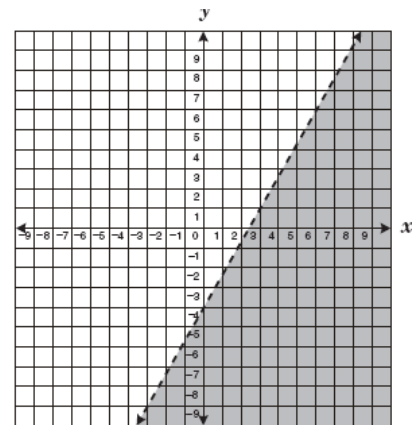
9. The graph is the solution for which inequality?

**F**  $y < \frac{5}{3}x - 4$

**G**  $y < \frac{3}{5}x - 4$

**H**  $y > \frac{3}{5}x - 4$

**J**  $y > \frac{5}{3}x - 4$



10. Which equation best represents the graph below?

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

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

**H**  $y = 3 + \frac{3}{2}x$

**J**  $y = 3 + \frac{2}{3}x$

