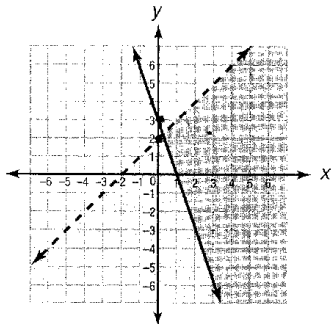


42. Which system of linear inequalities has this graph?



- A.  $\begin{cases} y > x + 2 \\ y \leq -3x + 3 \end{cases}$
- B.  $\begin{cases} y < x + 2 \\ y > 3x + 3 \end{cases}$
- C.  $\begin{cases} y < x + 2 \\ y \geq -3x + 3 \end{cases}$
- D.  $\begin{cases} y \leq x + 2 \\ y > -3x + 3 \end{cases}$

43. If Nora rolls a number cube with faces numbered 1 through 6 and spins a spinner with 8 equal sections labeled A through H, what is the probability that the number cube will show a number greater than 1 and the spinner will land on a vowel?

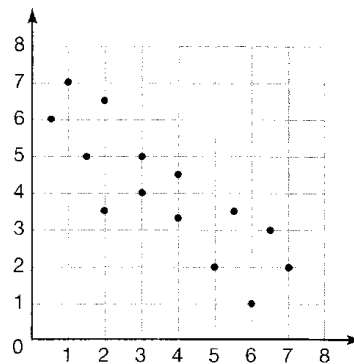
- A.  $\frac{5}{24}$
- B.  $\frac{1}{3}$
- C.  $\frac{5}{12}$
- D.  $\frac{1}{2}$

44. As Yancy rode in the family car on the way to the beach, he collected and recorded these data using his watch and the readings on the car odometer.

<b>Minutes</b>	20	30	50	80	90
<b>Miles Traveled</b>	16	24	40	64	72

If  $x$  represents the minutes and  $y$  represents the miles traveled, which linear equation can be used to model Yancy's data?

- A.  $y = x - 4$
- B.  $y = x + 4$
- C.  $y = \frac{4}{5}x$
- D.  $y = \frac{5}{4}x$
45. What would be a good line of best fit for the data in this scatter plot?



- A. a line through (1, 5) and (7, 5)
- B. a line through (1, 6) and (5, 3)
- C. a line through (2, 3) and (7, 7)
- D. a line through (4, 2) and (4, 7)