## Do \#1 to 4

## II

Which of the following is a solution to the inequality $-x-4>4 x-14$ ?
(A) $-1+x+x$
B) $2 \longrightarrow$
c) $5 \quad-4>5 x-14$
D) 8

$$
\frac{10}{5}>\frac{8 x}{5}
$$

$$
27 x
$$



Which of the following systems of inequalities could be the one graphed in the $x y$-plane above?
A) $y>3$
$y>x$
B) $y<3$

D) $y>3$
$y<x$

## 4

Jerry estimates that there are $m$ marbles in a jar.
Harry, who knows the actual number of marbles in the jar, notes that the actual number, $n$, is within 10 marbles (inclusive) of Jerry's estimate. Which of the following inequalities represents the relationship between Jerry's estimate and the actual number of marbles in the jar?
A) $n+10 \leq m \leq n-10$
B) $n-10 \leq n \leq m+10$
C) $n \leq m \leq 10 n$
D) $\frac{m}{10} \leq n \leq 10 m$


5
A manufacturer produces chairs for a retail store according to the formula, $M=12 P+100$, where $M$ is the number of units produced and $P$ is the retail price of each chair. The number of units sold by the retail store is given by $N=-3 P+970$, where $N$ is the number of units sold and $P$ is the retail price of each chair. What are all the values of $P$ for which the number of units produced is greater than or equal to the number of units sold?
A) $P \geq 58$
B) $P \leq 58$
C) $P \geq 55$
D) $P \leq 55$

