

STATION #1

INEQUALITIES

SOLVE THE INEQUALITY AND EXPRESS THE DOMAIN IN INTERVAL NOTATION

①  $-4(3-a) > 6a - 18$

②  $4 \leq \frac{2}{3}x - 1 \leq 9$

③  $3x - 2 \geq 7$  OR  $5x + 6 < 1$

GRAPH THE LINEAR INEQUALITY IN TWO VARIABLES

④  $2x - 3y > 6$

**STATION #2**

**ABSOLUTE VALUE EQUATIONS  
AND INEQUALITIES**

**SOLVE AND GRAPH THE SOLUTION ON  
A NUMBER LINE**

①  $|2x + 1| = 7$

②  $|x + 2| \geq \frac{1}{4}$

③  $5|-2x - 4| + 5 \geq 115$

④  $3 - 2|5 + 2x| < -3$

### STATION #3

### SYSTEMS OF EQUATIONS

- ① IF  $x - y = -4$  AND  $3x + y = -12$ ,  
THEN  $y = ?$
- ② THE COST OF TICKETS FOR THE SCHOOL  
PLAY IS \$3 FOR ADULTS AND \$2 FOR  
CHILDREN. 350 TICKETS WERE SOLD AND  
\$950 WAS COLLECTED. HOW MANY TICKETS  
OF EACH TYPE WERE SOLD?
- ③ KRYSTAL'S SCHOOL IS SELLING TICKETS  
TO THE ANNUAL TALENT SHOW. ON THE  
FIRST DAY OF TICKET SALES THE SCHOOL  
SOLD ONE SENIOR CITIZEN TICKET AND  
12 CHILD TICKETS FOR A TOTAL OF \$124.  
THE SCHOOL TOOK IN \$54 ON THE SECOND  
DAY BY SELLING 6 SENIOR CITIZEN  
TICKETS AND 3 CHILD TICKETS. WHAT  
IS THE PRICE OF ONE SENIOR CITIZEN  
TICKET AND ONE CHILD TICKET?

**STATION # 4**

**SYSTEMS OF INEQUALITIES**

GRAPH THE SYSTEM OF INEQUALITIES

①

$$y \geq 4 - x$$

$$y < \frac{2}{3}x - 1$$

②

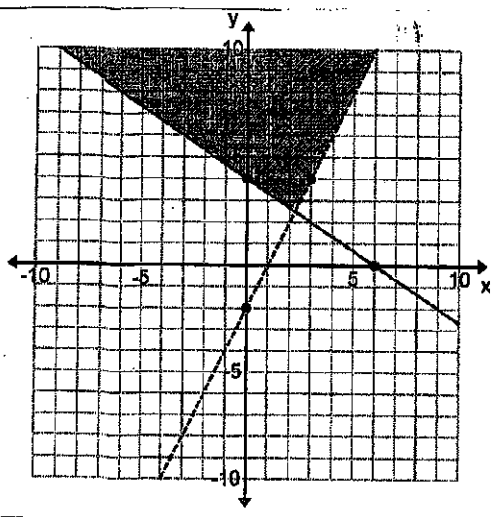
$$x - y > 7$$

$$2x + y < 8$$

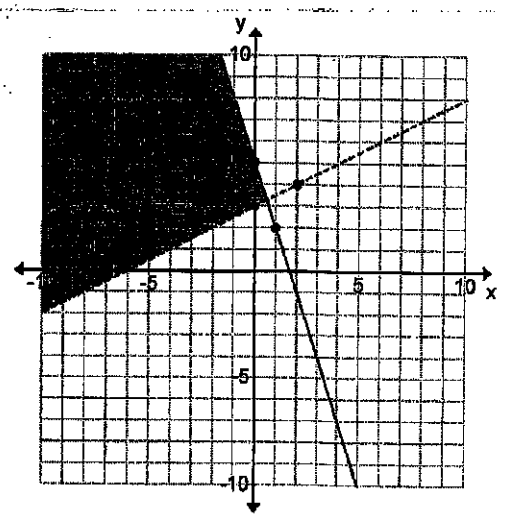
WRITE A SYSTEM OF INEQUALITIES

TO REPRESENT THE GIVEN GRAPH

③



④



STATION #5

SYSTEMS OF LINEAR  
INEQUALITIES

GIVEN:  $x \geq 0$   
 $y \geq 0$   
 $x + y \leq 8$   
 $x - y \leq 8$

WHICH OF THE FOLLOWING POINTS  
SATISFY ALL OF THE CONSTRAINTS?

$(3, 1)$     $(0, 8)$     $(2, 6)$     $(-1, 7)$

$(-2, 4)$     $(0, -5)$     $(3, -2)$     $(-3, 4)$