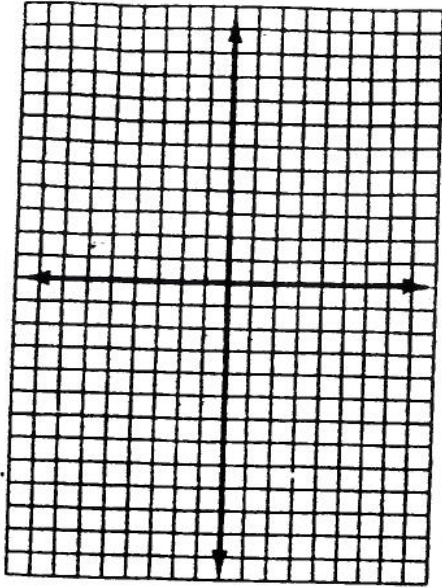
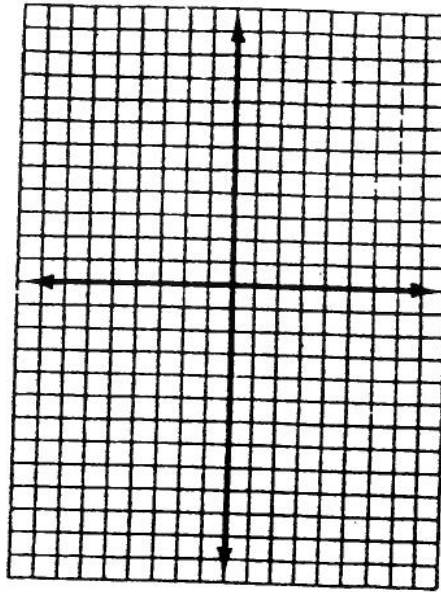


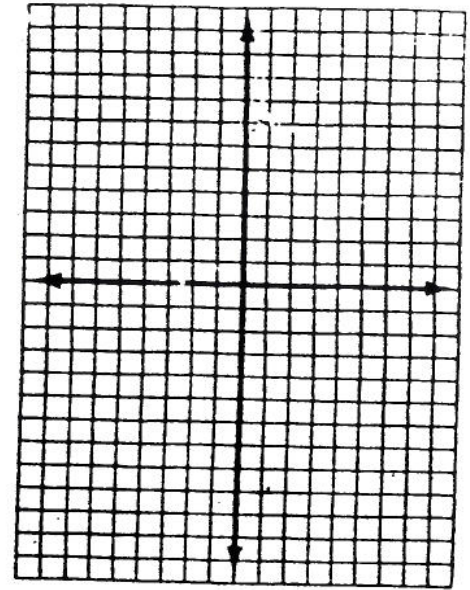
1. $y < \frac{1}{3}x + 2$



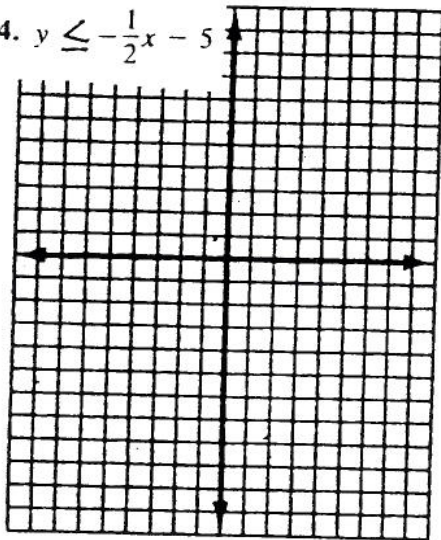
2. $y \geq \frac{2}{5}x + 4$



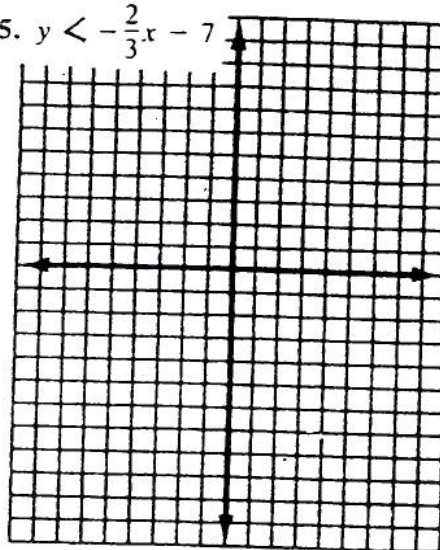
3. $y > -\frac{4}{5}x$



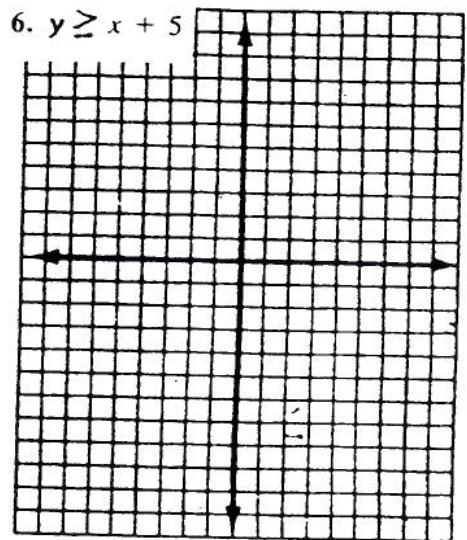
4. $y \leq -\frac{1}{2}x - 5$



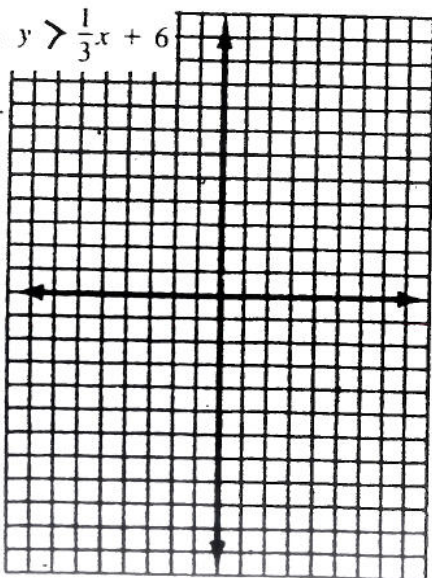
5. $y < -\frac{2}{3}x - 7$



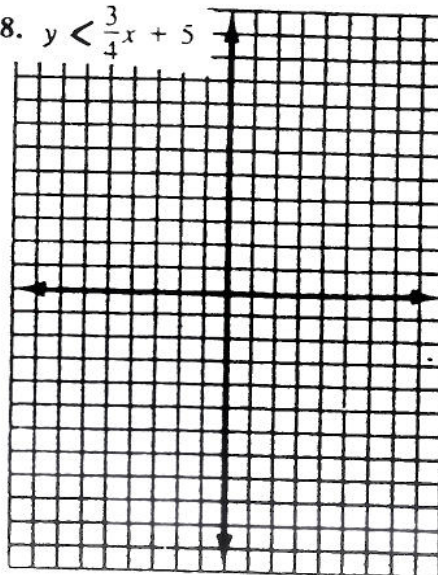
6. $y \geq x + 5$



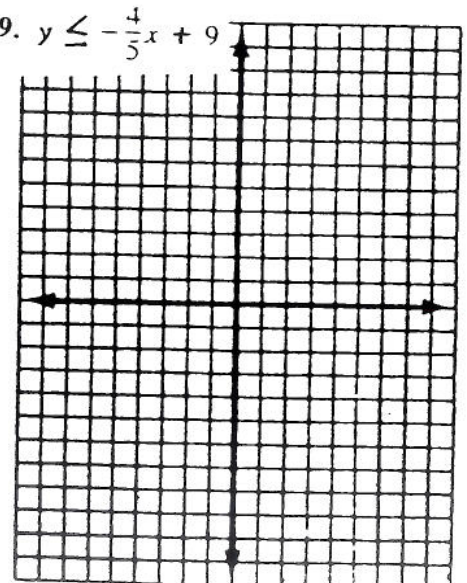
7. $y > \frac{1}{3}x + 6$



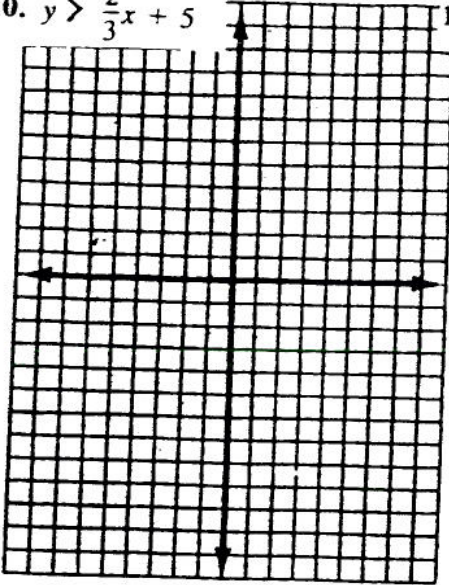
8. $y < \frac{3}{4}x + 5$



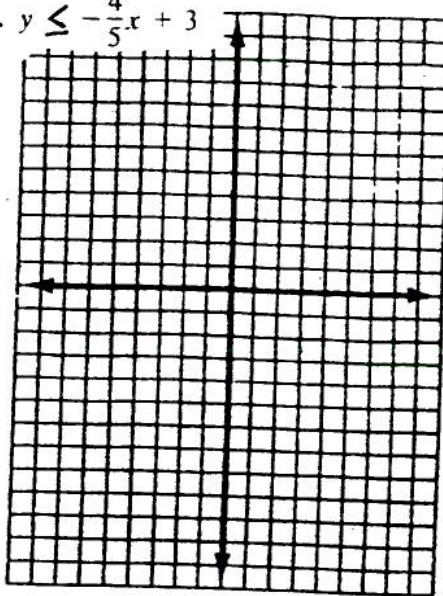
9. $y \leq -\frac{4}{5}x + 9$



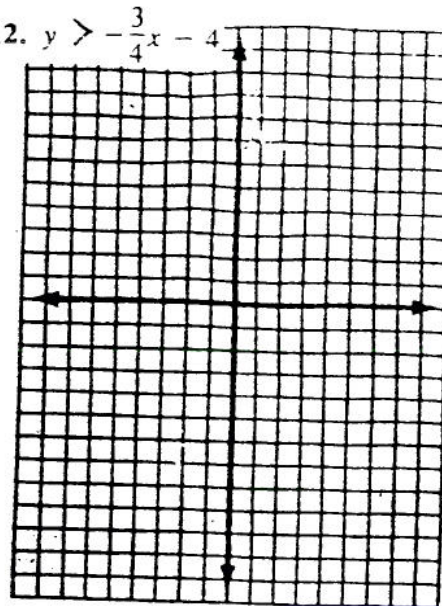
10. $y > \frac{2}{3}x + 5$



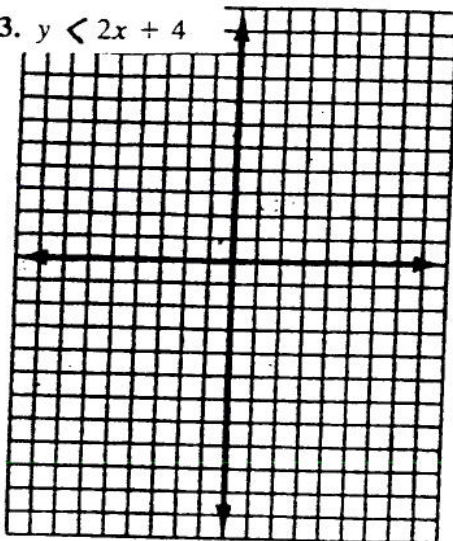
11. $y \leq -\frac{4}{5}x + 3$



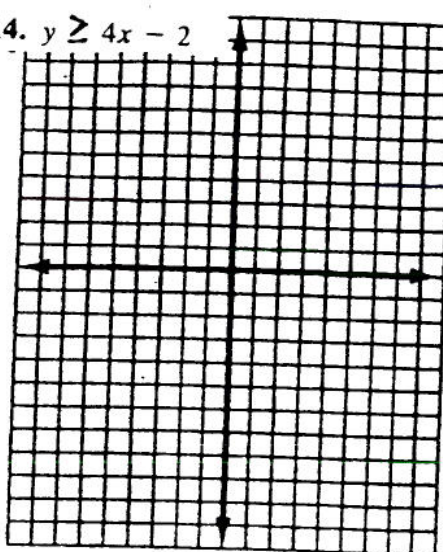
12. $y > -\frac{3}{4}x - 4$



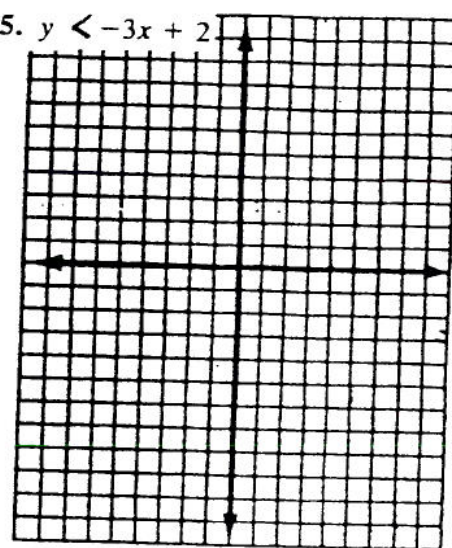
13. $y < 2x + 4$



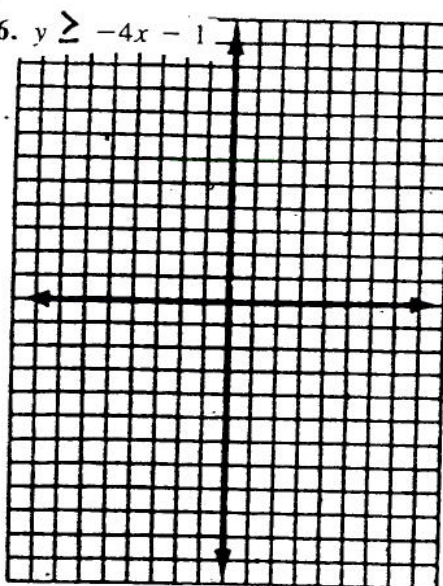
14. $y \geq 4x - 2$



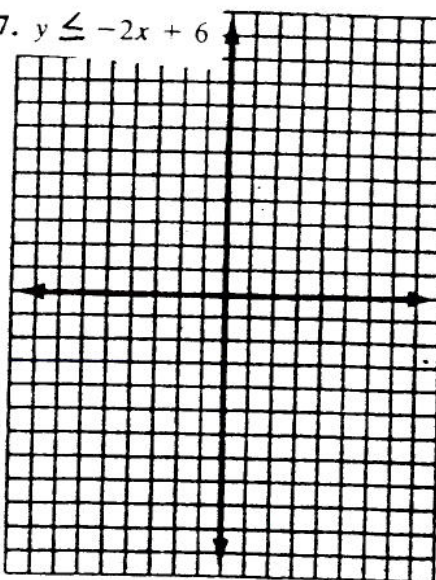
15. $y < -3x + 2$



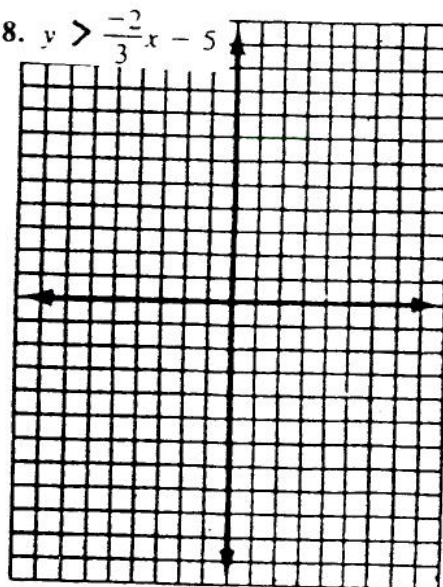
16. $y \geq -4x - 1$



17. $y \leq -2x + 6$



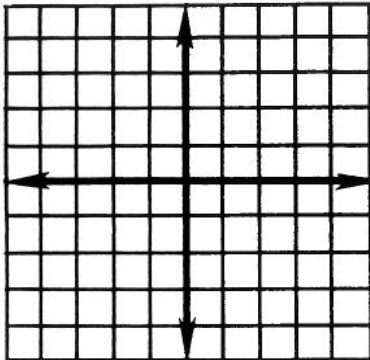
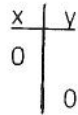
18. $y > \frac{-2}{3}x - 5$



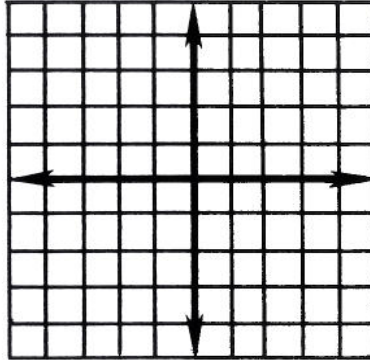
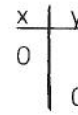
Why Did The Roman Coliseum Go Broke?

Graph any inequality below. Then read the three statements that appear under the coordinate grid for that exercise. Circle the letter of the statement that correctly describes the location of the graph. Write this letter in each box at the bottom of the second page that contains the number of that exercise.

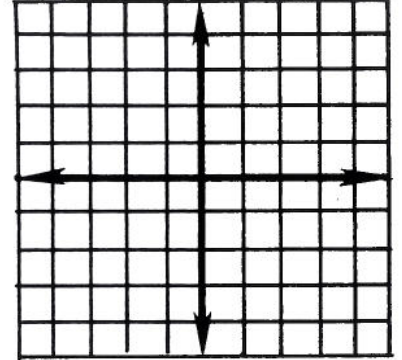
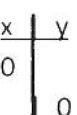
① $x + y > 2$



② $x + y \leq 2$



③ $2x - y \geq 4$

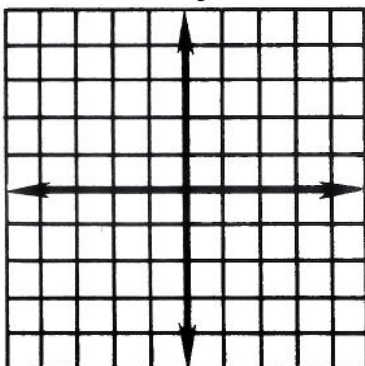
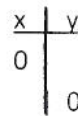


- K** Quadrants I, III, IV; includes boundary line.
- A** Quadrants I, II, IV; excludes boundary line.
- G** All four quadrants; excludes boundary line.

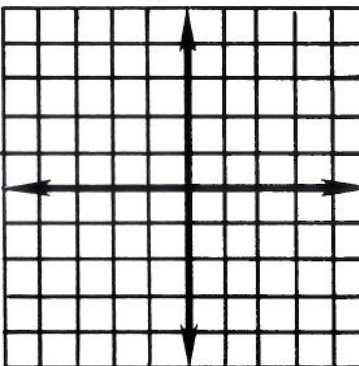
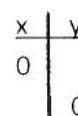
- I** Quadrants I, II, IV; includes boundary line.
- S** Quadrants I, II, III; excludes boundary line.
- E** All four quadrants; includes boundary line.

- C** All four quadrants; includes boundary line.
- R** Quadrants I, III, IV; includes boundary line.
- Y** Quadrants I, III, IV; excludes boundary line.

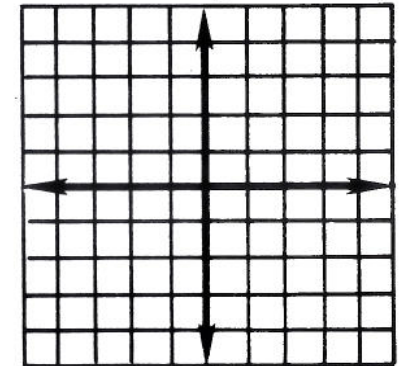
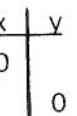
④ $-2x + y < 4$



⑤ $x + y \geq -3$



⑥ $3x - 2y \leq 6$

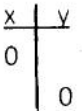


- O** All four quadrants; excludes boundary line.
- F** Quadrants II, III, IV; excludes boundary line.
- I** Quadrants I, II, III; excludes boundary line.

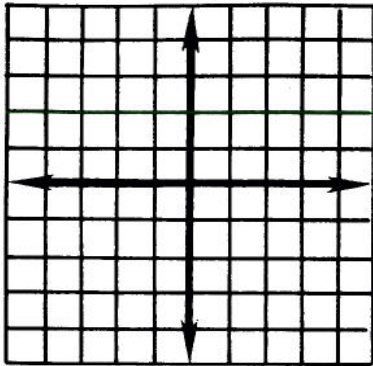
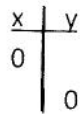
- D** All four quadrants; excludes boundary line.
- N** Quadrants II, III, IV; includes boundary line.
- S** All four quadrants; includes boundary line.

- U** All four quadrants; includes boundary line.
- B** Quadrants II, III, IV; includes boundary line.
- V** Quadrants I, III, IV; includes boundary line.

Use the "test point" method for shading.

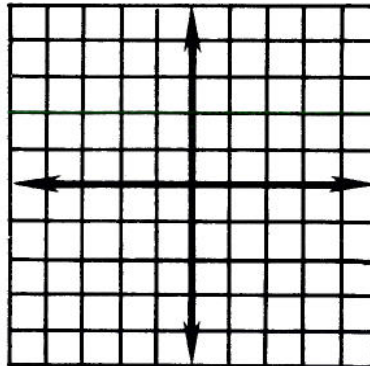
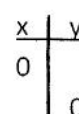


⑦ $3x + 2y > 6$



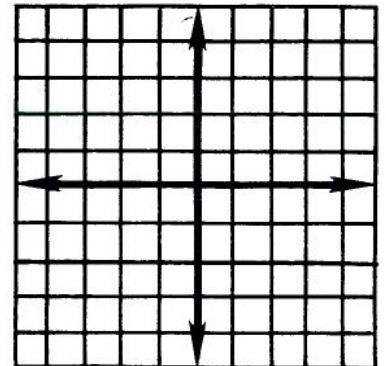
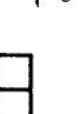
- T** Quadrants I, II, III; includes boundary line.
- M** All four quadrants; excludes boundary line.
- H** Quadrants I, II, IV; excludes boundary line.

⑧ $-x + 4y < -4$



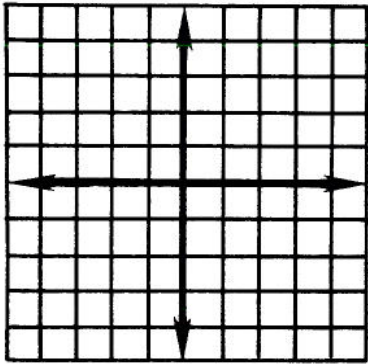
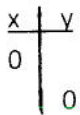
- P** All four quadrants; includes boundary line.
- I** Quadrants I, III, IV; excludes boundary line.
- F** All four quadrants; excludes boundary line.

⑨ $2x - y < -3$



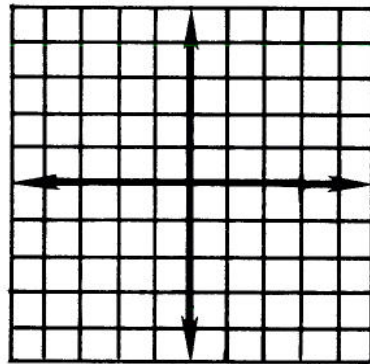
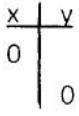
- L** Quadrants I, II, IV; includes boundary line.
- N** Quadrants I, II, III; excludes boundary line.
- T** All four quadrants; excludes boundary line.

⑩ $x + 2y \leq 5$



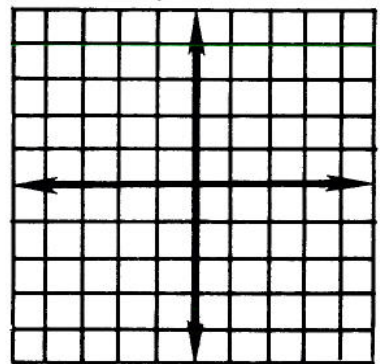
- L** All four quadrants; includes boundary line.
- Y** Quadrants I, II, IV; includes boundary line.
- M** Quadrants II, III, IV; includes boundary line.

⑪ $-3x - 4y > 12$



- P** Quadrants II, III, IV; includes boundary line.
- C** All four quadrants; excludes boundary line.
- T** Quadrants II, III, IV; excludes boundary line.

⑫ $x - y \geq 0$



- P** Quadrants I, III, IV; includes boundary line.
- M** Quadrants I, II, IV; includes boundary line.
- D** Quadrants I, II, III; includes boundary line.

	11	7	2	10	8	4	9	5	1	11	2	6	12
1	10	10	11	7	2	12	3	4	12	7	2	11	5

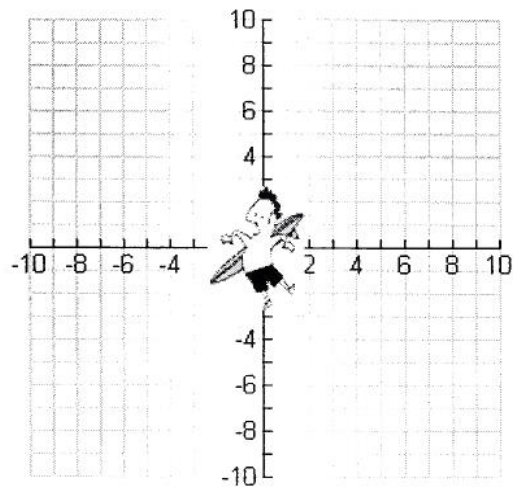
Will the inequality "surf" splash over our surfers?



First, try to decide (without graphing) if the shading of the inequality (the surf) will splash over our surfers. Then graph the inequality and shade to show the answer.

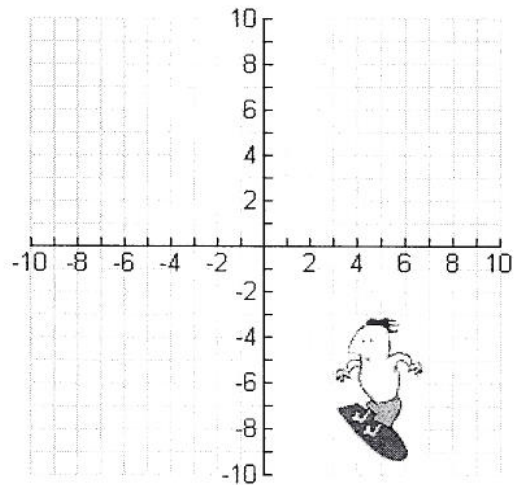
1.

$$2y > 10 - x$$



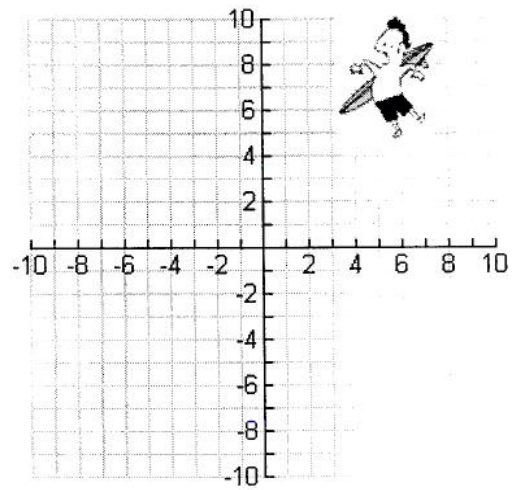
2.

$$2y \leq 8 - x$$



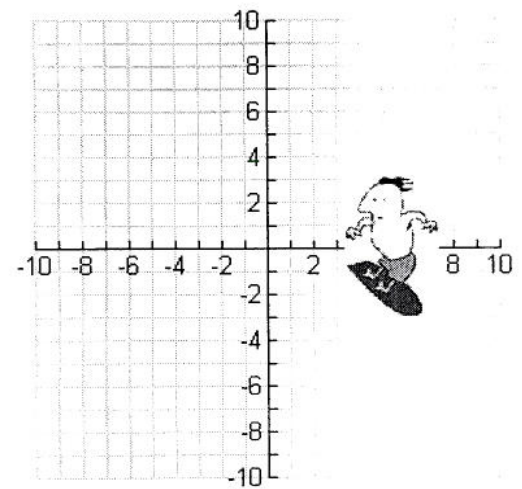
3.

$$-2y > 2x - 4$$



4.

$$y \geq 2x$$



5.

$$y \geq x + 1$$

