

LESSON
7-2

Practice B
Solving Linear Inequalities

Tell whether the ordered pair is a solution of the given inequality.

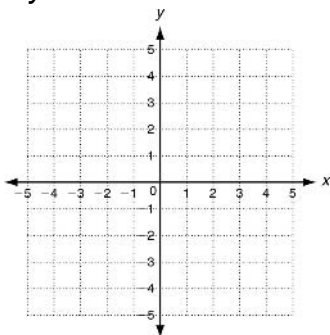
1. $(1, 6)$; $y < x + 6$

2. $(-3, -12)$; $y \geq 2x - 5$

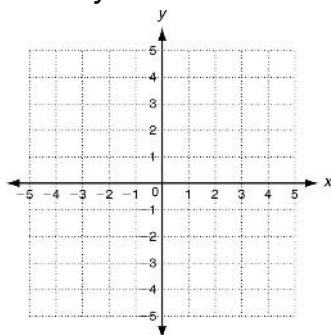
3. $(5, -3)$; $y \leq -x + 2$

Graph the solutions of each linear inequality.

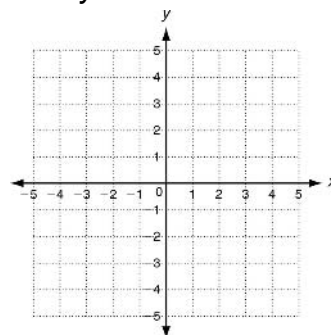
4. $y \leq x + 4$



5. $2x + y > -2$



6. $x + y - 1 < 0$

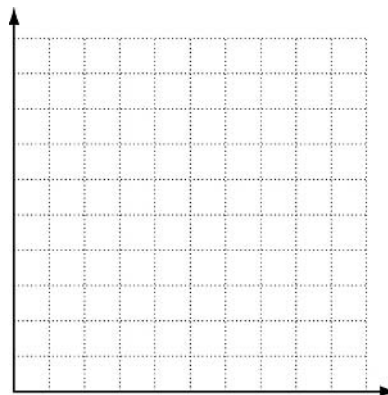


7. Clark is having a party at his house. His father has allowed him to spend at most \$20 on snack food. He'd like to buy chips that cost \$4 per bag, and pretzels that cost \$2 per bag.

a. Write an inequality to describe the situation.

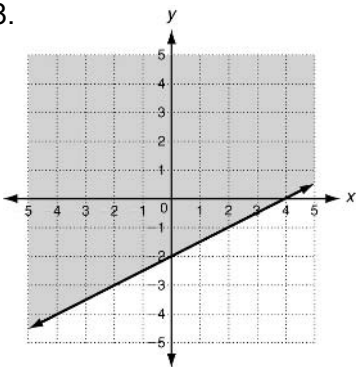
b. Graph the solutions.

c. Give two possible combinations of bags of chips and pretzels that Clark can buy.

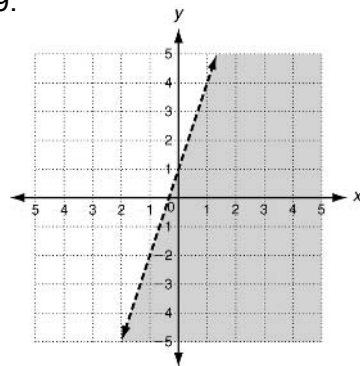


Write an inequality to represent each graph.

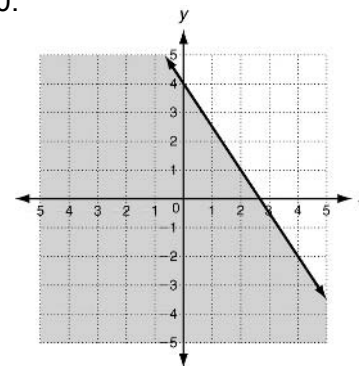
8.



9.



10.



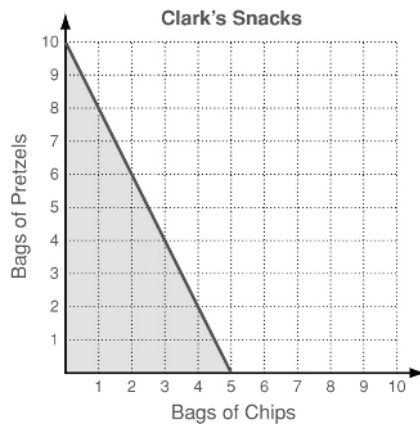
7. $y \geq x - 2$

8. $y < 2x + 4$

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

7. a. Let $x =$ chips, $y =$ pretzels, $4x + 2y \leq 20$

b.



c. Possible answer: 3 chips, 4 pretzels or 4 chips, 1 pretzel

8. $y \geq \frac{1}{2}x - 2$

9. $y < 3x + 1$

10. $y \leq -\frac{3}{2}x + 4$

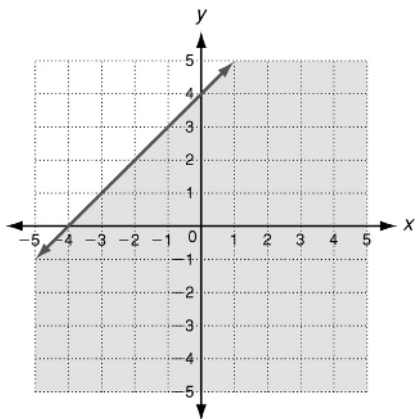
Practice B

1. yes

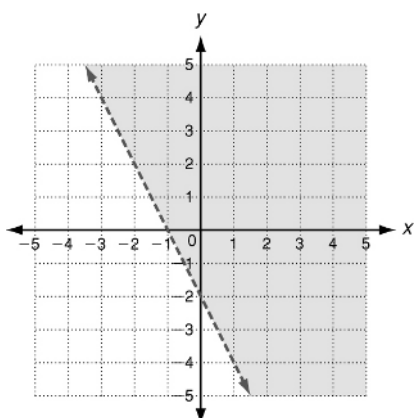
2. no

3. yes

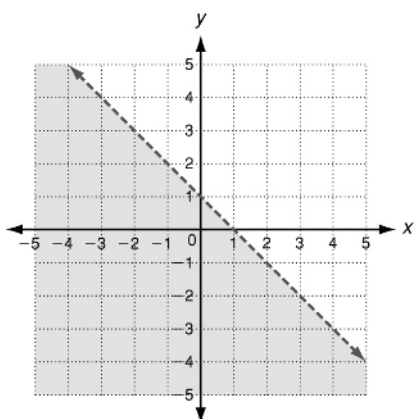
4.



5.



6.



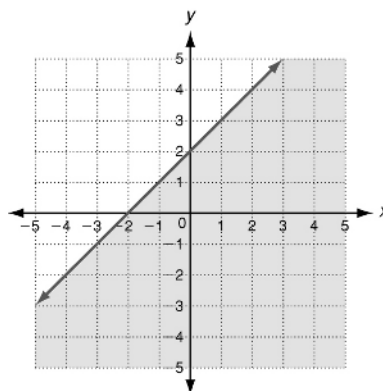
Practice C

1. no

2. no

3. yes

4.



5.

