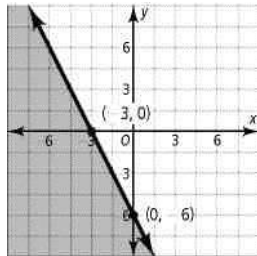


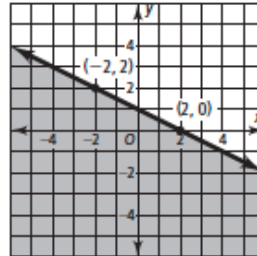
6-5 Practice

Write a linear inequality that represents each graph.

1.



2.



REAL WORLD PROBLEMS – USE GRAPH PAPER

3. A friend has \$75 to buy some new shirts and pants. Each shirt s costs \$11. Each pair of pants p costs \$19.
 - a. Write and graph an inequality that shows how many shirts and pants your friend can buy.
 - b. Which side of the boundary line should you shade?
 - c. What inequality symbol did you use? Explain.
4. Admission to the movie theater costs \$7.50 for adults and \$3.50 for students. The theater must bring in at least \$200 per movie. Write an inequality for the number of tickets the theater needs to sell to make a profit. If the theater sells 15 adult tickets, how many student tickets do they need to sell to make a profit?
5. Each child at the birthday party was given \$5 to spend at the arcade on games and rides. Each game costs \$0.25 and each ride costs \$0.50. Write an inequality for the number of games and rides a child can enjoy for \$5. What is the maximum number of games or rides each child can enjoy?

6. You and some friends have \$30. You want to order large pizzas (p) that are \$9 each and drinks (d) that cost \$1 each. Write and graph an inequality that shows how many pizzas and drinks can you order.?
7. Tickets to a play cost \$5 at the door and \$4 in advance. The theatre club wants to raise at least \$400 from the play. Write and graph an inequality for the number of tickets the theatre club needs to sell. If the club sells 40 tickets in advance, how many do they need to sell at the door to reach their goal?
8. **Reasoning** Two students did a problem as above, but one used x for the first variable and y for the second variable and the other student used x for the second variable and y for the first variable. How did their answers differ and which one, if either, was incorrect?