

Write and solve an inequality for each situation. Show your solution using a graph.

1. Jacob wants to make some flies for fishing to sell at an upcoming sports show. The cost of equipment to make the flies is \$140. He plans to sell each fly for \$2. How many flies will he need to sell if he wants to make a profit greater than \$180?
2. Kerri is going to the amusement park with her friends. Rides cost \$1.25 each. In addition, the amusement park charges a \$5 entry fee. Kerri's mother has asked her to spend less than \$25. How many rides can Kerri go on?
3. Addison put \$50.00 on his lunch card at the beginning of the month. Lunch costs \$2.25 per day. Addison is sent a message when his lunch account falls below \$5.00. When should Addison expect a message?
4. Jordan has a new car. The car has a low fuel light near the gas gauge that lights up when there is less than  $\frac{1}{8}$  of a tank of gas remaining. Jordan fills her car to its capacity of 12 gallons. She starts out on a trip driving at a rate that consumes  $2\frac{1}{2}$  gallons of gas per hour. After how many hours will the light be on?