

Skating Party

Suppose your class is planning a skating party to celebrate the end of the school year. Your committee is in charge of finding a place to rent in-line skates for a reasonable price. You get quotes from two companies.

Roll-away Skates charges \$5 per person.
Wheelie's Skates and Stuff charges \$100 plus \$3 per person.

Which company should you choose if you want to keep the cost to a minimum? Explain how you made your choice.



1. For each company, write an equation for the relationship between the number of people and the cost.
 - a. Make one equation that can be solved to show when both companies will charge the same amount. (Use substitution.)
 - b. Sketch a graph that has both companies represented.
2. Which company would you choose if 100 students are planning to attend the party? Why?
 - a. If your budget for the skate rental is \$250, how many pairs of skates can you rent from each company?
3. Write an inequality that shows when Roll-Away Skates is less expensive than Wheelie's. Then solve the inequality.