

The Class Party Problem

Ms. Simpson, the assistant principal, has appointed you chairperson of the committee whose responsibility is to plan the 7th grade end-of-year class party. There are 100 7th graders at your school but it is unknown how many students will attend and it has not yet been decided whether each class member can invite a guest. Here is the information about party options:

- **Water World** offers swimming, and a snack (one hot dog, small bag of chips, and drink.) The cost is \$100 to reserve the pool and \$5.00 per person.
- **Pizza Pi and Movie Plex** offers a movie and a snack (pizza and drink.) The cost is \$10.00 per person, which includes the movie and snack.
- **Skate 'Til Late** offers skating and ice cream. The cost is \$200 to rent the skating rink and \$2.00 per person which includes the ice cream and skate rental.

Write a memo to Ms. Simpson explaining which party option is the best, for different numbers of students participating, if price is the main concern of the class.