Section 9.2 Math Link

This worksheet will help you with the Math Link on page 359.

Some amusement parks offer single-ride tickets, where you pay each time you ride, and all-day passes, where you pay once for unlimited rides. The prices for both types of tickets need to be high enough for the amusement park to earn a profit but low enough that people decide to come.

1. Search various media, such as newspapers, magazines, travel guides, and the Internet, to find information about ticket prices at amusement parks. Research at least three different amusement parks. Copy this chart to record your information. Leave enough space for all of the ticket price options you will find for each amusement park.
   • In column 1, write the name of the amusement park you researched.
   • In column 2, record details about the ticket prices.

Amusement Park	Ticket Prices
a)	
b)	
c)	
d)	

2. You are going to choose prices for your own amusement park. Use the information you gathered to answer the following questions.
   a) Choose a price for single-ride tickets. Explain why your choice is reasonable.
   b) Choose a price for all-day passes. Explain why your choice is reasonable.

3. a) Determine the number of rides that make the single-ride tickets the same cost as an all-day pass:
   Price of single-ride ticket × [   ] = price of all-day pass
   Round down to the nearest whole number, if necessary.
   b) Determine the number of rides that makes the all-day pass a better deal than the single-ride tickets. Use an inequality to model the situation.

4. Your friends plan on going on seven rides in your amusement park.
   a) What is the cost of seven single-ride tickets?
   b) What is the cost of an all-day pass?
   c) Which is the better option for your friends? Explain.