Name: _____   Date: _____

Chapter 9 Math Link Introduction

This worksheet will help you with the Math Link introduction on page 339.

1. Using the term *less than or equal to*,
 a) verbally describe the restriction on the number of people in each gondola
 b) verbally describe the restriction on the total number of people that the Ferris wheel could carry

2. a) Research a modern Ferris wheel.
   • State a fact about its design.
   • State a fact about its capacity.
 b) Describe a restriction on a modern Ferris wheel using a term such as *greater than or equal to* or *less than or equal to*.
   Example: The capacity of the ride is less than or equal to the number of seats in all of the gondolas.

3. Think about other amusement park rides you may have seen.
 a) What reasons might designers have for restricting the number of people on a ride at one time? Give two reasons.
 b) What other types of restrictions might designers put in place? List two types.
 c) Describe a restriction verbally and algebraically.
   Example:
   Verbally: A ride has a sign that shows all riders must be greater than 150 cm tall.
   Algebraically: $h > 150$ cm, where h is the height of the rider