

# Writing Inequalities

Inequalities can be written to represent many situations.

## Examples:

**There are at least 25 students in the auditorium.**

$n \geq 25$  "at least" means greater than or equal to  
 $n$  represents the number of students in the auditorium

**No more than 150 people can occupy the room.**

$r \leq 150$  "no more than" means less than or equal to  
 $r$  represents the possible room capacity

## You Try:

**Write an inequality for each given situation.**

- 1) You cannot eat more than 2 pieces of your Halloween candy per day.  $x \leq 2$
- 2) There are less than 15 people in the room.
- 3) There are at most 12 books on a shelf.  $x \leq 12$
- 4) There are fewer than 200 people at the game.
- 5) You must get at least 30 minutes of exercise each day.  $x \geq 30$

- 6) You must be at least 15 years old to get your driver's permit.
- 7) A pony is less than 14.2 hands tall.  $x < 14.2$
- 8) You must be over 12 years old to ride the go karts.
- 9) The pig weighs at most 220 pounds.  $x \leq 220$
- 10) Every candy bar costs at least \$2.20.
- 11) You must complete at least 80% of your homework to attend the Homework Stars Celebration.  $x \geq 80$
- 12) There are no more than seven people on the boat.
- 13) More than 40 people attended the movie last night.  $x > 40$
- 14) You must be under 54" to ride the kiddie rides at Six Flags.
- 15) Getting at least 8 hours of sleep at night keeps you healthy.  $x \geq 8$