

Name Wendy Date _____ Period _____

Translating Verbal Statements To Inequalities

Examples

Symbol	Meaning	Related Terms	Verbal Statement	Algebraic Statement
$>$	greater than	more than, over, exceeds, above	I want to exceed the most points I have scored in a game which is 28. Let p represent points.	$p > 28$
$<$	less than	fewer, under, below	To receive a children's discount at the movies you must be under 13 years old. Let a represent age.	$a < 13$
\geq	greater than or equal to	at least, minimum	Your essay must be at least 5 pages long. Let p represent pages.	$p \geq 5$
\leq	less than or equal to	limit, maximum, capacity, at most	John has a spending limit of \$300. Let s represent amount spent.	$s \leq \$300$

Read each verbal inequality. Fill in the remainder of the chart.

Symbol	Meaning	Related Term(s)	Verbal Statement	Algebraic Statement
$<$			To be allowed on a children's ride at the fair, the child must be under 50 pounds. Let w = weight.	$w < 50$
\leq			The speed limit is 70 miles per hour. Let s represent speed.	$s \leq 70$
\geq			You must be at least 16 years old to drive a car. Let a represent age.	$a \geq 16$
$>$			To ride a roller coaster, the rider must be over 58 inches tall. Let h represent height.	$h > 58$
$<$			I need to beat a time of 10.9 to establish a personal best. Let t represent time.	$t < 10.9$
\leq			The capacity of a concert hall is 500 people. Let p = people	$p \leq 500$
\geq			You must be at least 35 years of age to run for the US presidency. Let a represent age.	$a \geq 35$

Symbol	Meaning	Related Term(s)	Verbal Statement	Algebraic Statement
\geq			The federal minimum wage is \$7.25. A person must be paid at least \$7.25 per hour. Let w = wages	$w \geq 7.25$
\geq			A local university requires at least a 2.8 GPA to be considered. Let g represent required GPA.	$g \geq 2.8$
\leq			The maximum age allowed to enlist in the US Army is 35 years old. Let a represent age.	$a \leq 35$
\leq			A sports car has a maximum speed of 220 miles per hour. Let s = speed.	$s \leq 220$
$<$			At sea level, water boils at 212° . What temperatures are less than 212° ? Let t represent temperature.	$t < 212$
$>$			A crowd was trying to break a noise record of 137.5 decibels. How many decibels would break the record?	$d > 137.5$
\geq			Kyle needs at least 15 more dollars to buy the shoes he wants. Let d represent how much Kyle needs.	$d \geq 15$
$<$			A business has a goal of selling 10,000 pizzas in a month. What values would fall short of this goal?	$g < 10,000$
\leq			A football stadium has a capacity of 70,000 people. What values would not exceed a capacity of 70,000?	$v \leq 70000$
\geq			If 14 is the minimum required age for employment, at what ages can you be employed? Let a = age.	$a \geq 14$
\geq			To donate blood you must be at least 110 pounds. At what weights can a person donate blood.	$w \geq 110$
$<$			If the hemoglobin level in your blood is less than 12.5 grams per deciliter, you are not allowed to donate blood. At what levels can you not donate blood?	$h < 12.5$
\geq	\uparrow		Hurricanes must have sustained winds of 157 mph or higher to be classified as a category 5 hurricane. What wind speeds would a hurricane be classified as a category 5?	$w \geq 157$
\leq	\uparrow		A cell phone plan has a limit of 500 minutes per month. How many minutes are allowed per month?	$m \leq 500$