



Key Concept Translating Verbal to Algebraic Expressions

Operation	Verbal Phrases
Addition	more than, sum, plus, increased by, added to
Subtraction	less than, subtracted from, difference, decreased by, minus
Multiplication	product of, multiplied by, times, of
Division	quotient of, divided by

Inequality Symbols

Symbol	$<$	$>$	\leq	\geq
Key phrases	<ul style="list-style-type: none">• is less than• is fewer than	<ul style="list-style-type: none">• is greater than• is more than	<ul style="list-style-type: none">• is less than or equal to• is at most• is no more than	<ul style="list-style-type: none">• is greater than or equal to• is at least• is no less than

Write each sentence as an inequality.

- a.** A number w minus 3.5 is less than or equal to -2 .
- b.** Three is less than a number n plus 5.
- c.** Zero is greater than or equal to twice a number x plus 1.

A number b is fewer than 30.4.

Tell whether -4 is a solution of each inequality.

a. $x + 8 < -3$

b. $-4.5x > -21$

Tell whether -6 is a solution of the inequality.

$$c + 4 < -1$$

$$4x - 25 > -2$$

Graph each inequality.

a. $y \leq -3$

b. $\frac{5}{2} < x$

Writing and Interpreting Inequalities



EXAMPLE 4

Writing an Inequality from a Graph

The graph shows the height restriction h (in inches) for a ride at an amusement park. Write and interpret an inequality that represents the height restriction for the ride.



The graph shows the height restriction h (in inches) for a ride at a water park. Write and interpret an inequality that represents the height restriction for the ride.

