

Name: Answers
 Mr. Art _____

Date: _____
 Period: _____

Verbal Problems with Inequalities

Directions: For #1 - 4, define a variable and write an inequality for each situation.

- 1) A car dealership sells at least 35 cars each week.

let $c = \#$ of sold cars

$$c \geq 35$$

- 2) No more than 425 tickets to a musical will be sold.

let $t = \#$ of sold tickets

$$t \leq 425$$

- 3) You must be at least 18 years old to vote.

let $x = \text{age in years}$

$$x \geq 18$$

- 4) The party store sold more than 720 balloons in July.

let $b = \#$ of sold balloons in July

$$b > 720$$

Directions: For #5 - 9, write an inequality and solve & CHECK the problem algebraically.

- 5) Six less than a number is less than 4.

let $n = \text{a number}$

$$n - 6 < 4$$

$$\begin{array}{r} n - 6 < 4 \\ + 6 \quad + 6 \\ \hline \end{array}$$

$$n < 10$$

Check

$$n - 6 < 4$$

$$9 - 6 < 4$$

$$3 < 4 \quad \checkmark$$