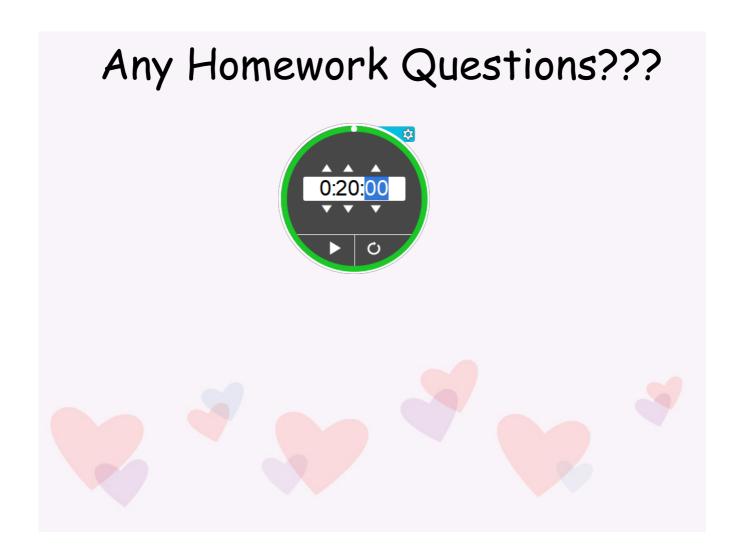
lesson 5.notebook February 14, 2019





## Section 6.3 Linear Inequalities

An inequality is used to model a situation that can be described by a range of numbers rather than a single number.

1) 
$$x = 3$$

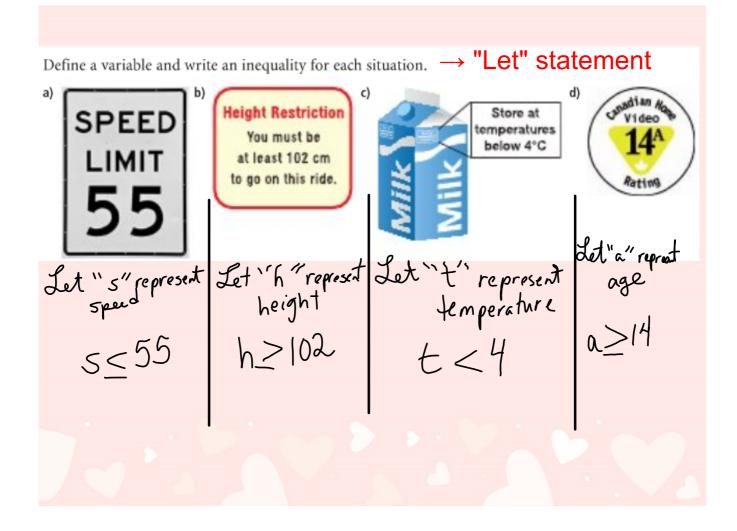
What does it mean? x has to be 3

x is any number greater than 3

x is any number greater than and can include 3

x is any number less than or equal to 3

Possible solutions
3
4, 5, 5, 62,58
103/5
92, 67,33



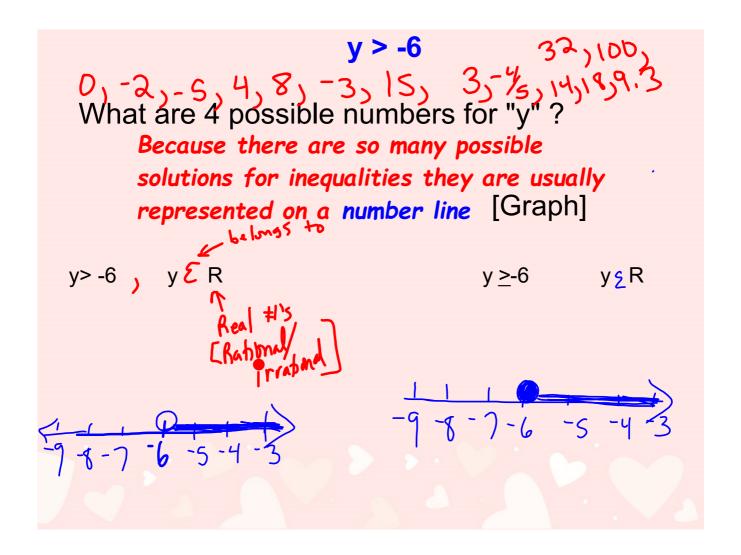
- (1) Define a variable ["Let "statement]
- (2) write an inequality to describe each situation:
- A. Contest entrants must be at least 18 years old.
  - 1) Let "a" represent the age
  - $2) \qquad a \geq 18$
- B. The temperature has been below -5 degrees for the last week.

  A) Let "t" represent the temperature.
  - B) t < -5
- C. You must have 7 items or less to use the express checkout.

  a) Let " represent

B)

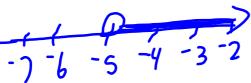
D. Scientists have identified over 40 species of dinosaurs





- A. Graph each inequality on a number line
- B. Write 4 numbers that can be a solution to the inequality

A. 
$$t > -5$$



C. 0.5 ≤ a