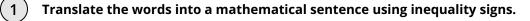
Printable Worksheets from sofatutor.com

### **Inequalities and Their Graphs**





- Describe the process of graphing inequalities.
- Explain the meaning of the graphs.
- Determine all speeds that will not result in a speeding ticket.
- Match the correct inequality with the graph.
- **Describe each situation using inequalities.** 
  - with lots of tips, answer keys, and detailed answer explanations for all of the problems.

The complete package, **including all problems**, **hints**, **answers**, **and detailed answer explanations** is available for all sofatutor.com subscribers.

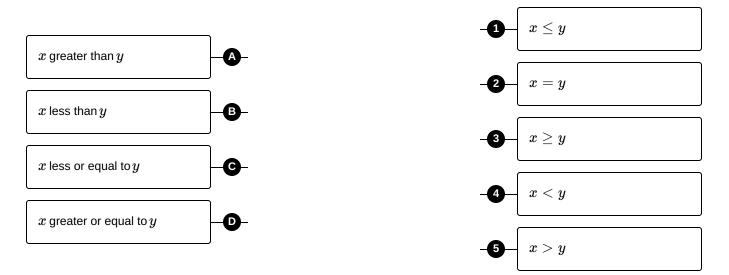




# Translate the words into a mathematical sentence using inequality signs.

Match each inequality sign with its description.

+ -× ÷





### Hints for solving these problems



# Translate the words into a mathematical sentence using inequality signs.

#### Hint #1

Remember: the open side of the inequality sign points towards the larger quantity. The closed side points towards the smaller quantity.

#### Hint #2

3>2 is a true statement as well as  $3\geq 2$ .



### Answers and detailed answer explanations for these problems



## Translate the words into a mathematical sentence using inequality signs.

Answer key: A-5 // B-4 // C-1 // D-3

The greater than and less than symbols help us to determine relative size between different quantities.

- When x is greater (larger) than y, we use the x > y sign.
- When x is greater than or equal to y, we use the  $x \ge y$  sign.
- When x is less (smaller) than y, we use the x < y sign.
- When x is less than or equal to y, we use the  $x \leq y$  sign.

