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Inequalities and Their Graphs



- 1 Translate the words into a mathematical sentence using inequality signs.
 - 2 Describe the process of graphing inequalities.
 - 3 Explain the meaning of the graphs.
 - 4 Determine all speeds that will not result in a speeding ticket.
 - 5 Match the correct inequality with the graph.
 - 6 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](https://www.sofatutor.com) subscribers.



Translate the words into a mathematical sentence using inequality signs.

Match each inequality sign with its description.

- A**
- B**
- C**
- D**

- 1**
- 2**
- 3**
- 4**
- 5**



Hints for solving these problems

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of 6

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

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of 6

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 $x \geq y$ 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.