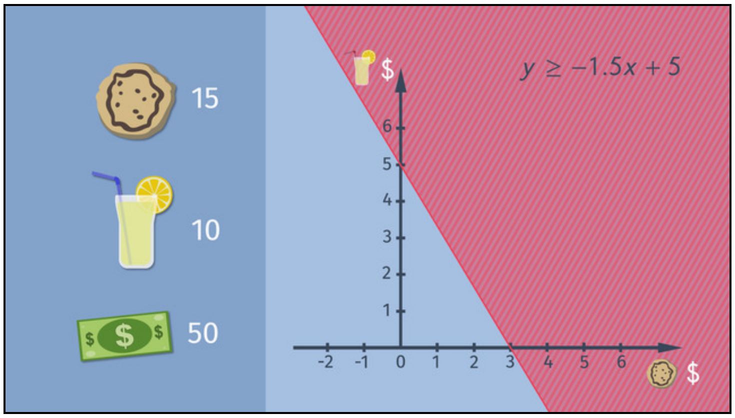
Printable Worksheets from sofatutor.com

Graphing Linear Inequalities

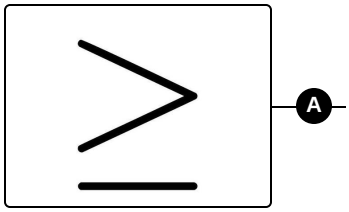


1. **Summarize how you can recognize the solution depending on the inequality sign.**
2. Decide which graph describes the given situation.
3. Determine which graph corresponds to which inequality.
4. Decide which values would earn aunt Sally enough money.
5. Decide which graph corresponds to the given inequality.
6. Decide if the given points lie within the area described by the inequalities.

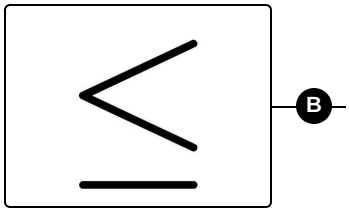
\+ with lots of tips, answer keys, and detailed answer explanations for all of the problems.

Summarize how you can recognize the solution depending on the inequality sign.

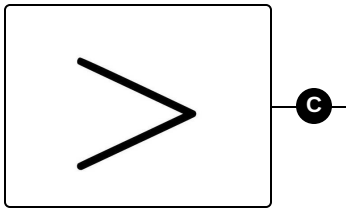
Match the inequality sign with the solution set.



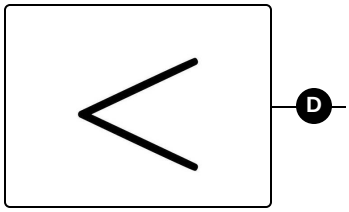
A



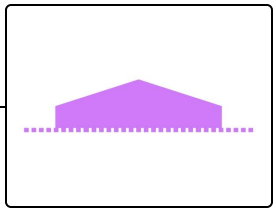
B



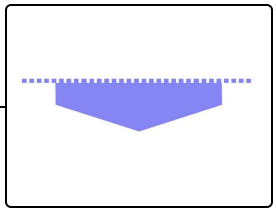
C



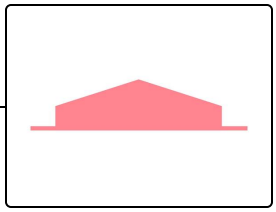
D



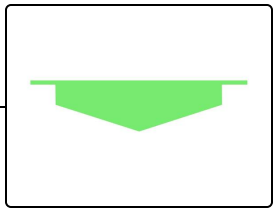
1



2



3



4

Hints for solving these problems

1 of 6

Summarize how you can recognize the solution depending on the inequality sign.

Hint #1

If the points on the line are also solutions, you can recognize this by a solid line otherwise a dashed line.

Hint #2

If the points on the line are also solutions, the corresponding inequality sign is $\geq$ or $\leq$.

Hint #3

Greater corresponds to above the line.

Answers and detailed answer explanations for these problems

1 of 6

Summarize how you can recognize the solution depending on the inequality sign.

Answer key: A—3 // B—4 // C—1 // D—2

Just remember the solutions depending on the relation sign:

- $\geq \rightarrow$ solid line and the solutions lie above the line.
- $\leq \rightarrow$ solid line and the solutions lie beyond the line.
- $> \rightarrow$ dashed line and the solutions lie above the line.
- $< \rightarrow$ dashed line and the solutions lie beyond the line.

Or:

- Greater than or less than as well as equal $\rightarrow$ solid line and dashed line otherwise.
- Greater than or greater than or equal to $\rightarrow$ above the line and beyond otherwise.