

Objective: To write and graph simple inequalities with one variable

What is a good definition for Inequality?

An inequality is a statement that two expressions are not equal

Terms you see and need to know to graph inequalities correctly

< less than



> greater than

Notice
open
circles

Terms you see and need to know to graph inequalities correctly

- ≤ less than or equal to
- ≥ greater than or equal to ———

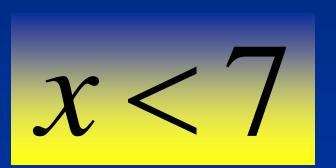
Notice colored in circles

Let's work a few together



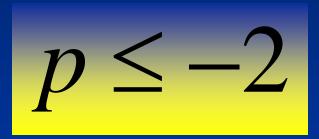
Notice: when variable is on left side, sign shows direction of solution

Let's work a few together



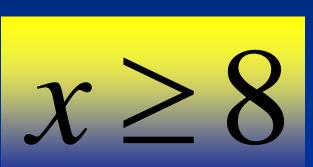
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Notice: when variable is on left side, sign shows direction of solution

Color in circle

Try this one on your own

x > 12



s<12



<u>m</u> ≥ 2



Answer 1 through 5

b < -6

2.

x > 10

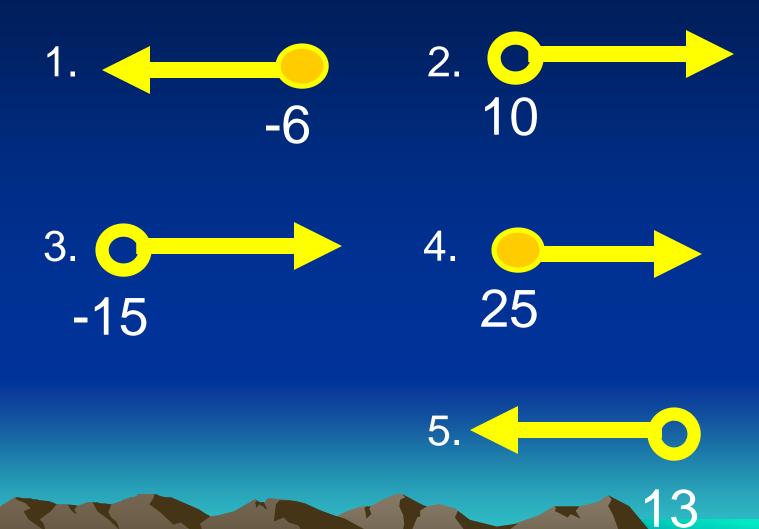
3.

4. g \ge 25

5.

X < 13

Answers: 1 through 5



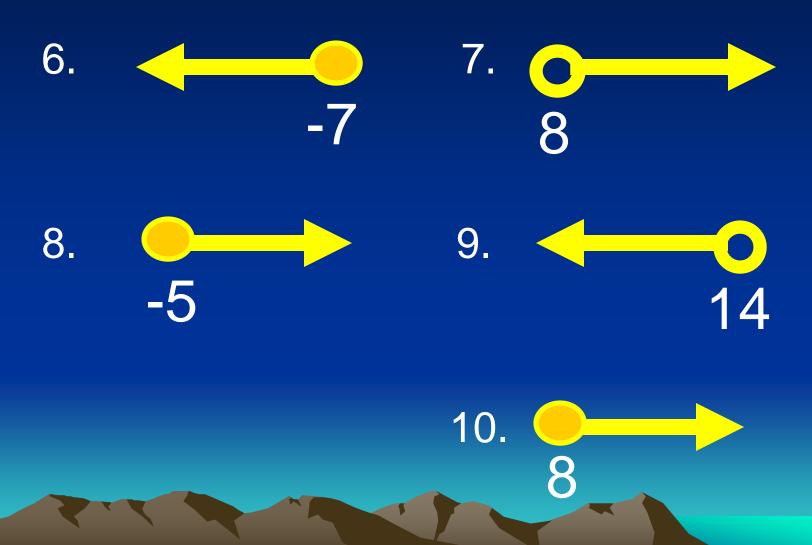
Answer 6 through 10

6. b < -7

7.
 a > 8

9. S < 14

Answers: 6 through 10



Graphing Inequalities





Excellent Job!!! Well Done