1. Write and graph an inequality to represent this statement: You must be at least 64 inches tall and no more than than 77 inches tall to fly a military jet.

$h \geq 64$ AND $h \leq 77$ Between 64 and 77

64   77

2. Write and graph an inequality to represent this statement: To get a discount ticket you can be up to 12 years old or you must be a minimum of 60 years old.

$a \leq 12$ OR $a \geq 60$

12   60

What is a compound in chemistry?

A compound is a substance formed when two or more chemical elements are chemically bonded together.

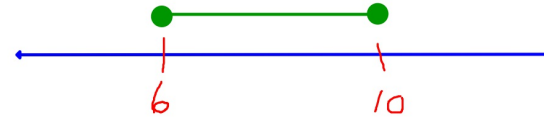Compound Inequalities - when two inequalities are connected with one of the following two words: AND   OR

To get any kind of B on the test you must get at least an 80 (and) below a 90.

Write this statement as a compound inequality.

$$g \geq 80 \quad \text{AND} \quad g < 90$$

Model the following statement with a compound inequality and graph it on a number line.

All real numbers that are at least 6 and no more than 10

to the right of 6 and at the same time to the left of 10

A compound inequality involving the word AND can be written two different ways.

$$n \geq 6 \quad \text{AND} \quad n \leq 10$$

I call this a between inequality.

It can be written as one statement:

$$6 \leq n \leq 10$$

Write a compound inequality to describe the temperatures in °F for which water is in a liquid state of matter.

Water is liquid above 32°F and below 212°F

$$32 < w < 212$$