



Algebra 1

Writing Equations and Inequalities

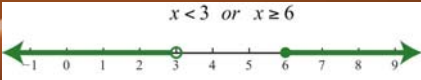




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Inequalities

Compound Inequalities

Solutions

[Overview.com](http://www.Overview.com)

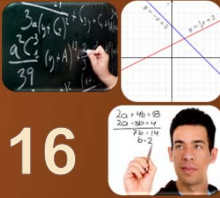
x **16**

$x = 16$ $x \neq 16$

$x > 16$ $x < 16$

$x \geq 16$ $x \leq 16$

larger, open end closer to bigger number



Writing Equations and Inequalities

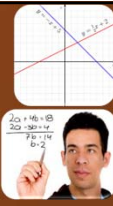
You have to be **exactly 16** years old to take driving lessons (d)

$$d = 16$$

You have to be **older than 16** years to take driving lessons (d)


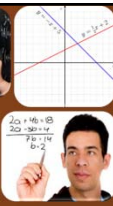
$$d > 16$$

You have to be **at least 16** years old to take driving lessons (d)

$$d \geq 16$$


Writing Equations and Inequalities

$x \leq -4$


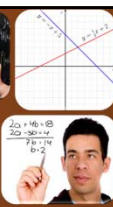
Writing Equations and Inequalities

The *Big Sisters Club* has teenage members, who must be younger than 17. It also has adult members, who serve as mentors. They have to be at least 21 years old. Use Inequality symbols to describe the membership (m).

$$m < 17 \quad m \geq 21$$

$$17 > m$$



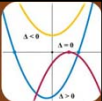


Compound Inequality


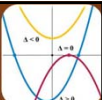


Writing Equations and Inequalities



The sum of x and 5 is no more than 8.
Write and graph an inequality that describes this situation. **You Try!**



The sum of x and 5 is no more than 8.
Write and graph an inequality that describes this situation. **You Try!**




Write an Inequality that describes the prices at Harry's Hats





You Try!

Harry's Hats
No hat more than \$10




Write an Inequality that describes the prices at Harry's Hats

$h \leq 10$

You Try 



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