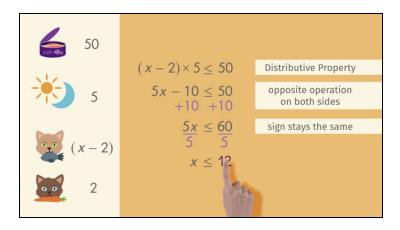
Printable Worksheets from sofatutor.com

Solving Two-Step Inequalities



- Describe the meaning of the inequality sign ≤.
 Determine how Miss. Crazycat can estimate the number of cats.
 Estimate the number of cats in Miss. Crazycat's apartment.
 Write an inequality to describe a number line.
 Describe how Miss. Crazydog can estimate the number of dogs living in her home.
 Solve the following 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 subscribers.





Describe the meaning of the inequality sign \leq .

Choose the correct description.



After thinking about it for a bit, Miss Crazycat estimates the number of cats living in her apartment is $x \leq 12$.

This means that she has fewer than $12\mathrm{cats}$.	A
This means that she has, at most, $12\ \mathrm{cats}$.	В
This means that she has exactly $12\ \mathrm{cats}.$	•
This means that she has at least $12\mathrm{cats}$.	•
This means that she has more than $12\mathrm{cats}$.	•

Hints for solving these problems



Describe the meaning of the inequality sign \leq .

Hint #1

 \leq means less than **OR** equal to.

Hint #2

< means less than.

Hint #3

There's a difference between less than and at most as well as between more than and at least.



Answers and detailed answer explanations for these problems



Describe the meaning of the inequality sign \leq .

Answer key: B

The number of Miss Crazycat's cats can be expressed using the inequality $x \leq 12$.

What does this mean? The number of cats is, at most, 12.

- Less than 12 is written as x < 12.
- More than 12 is written as x > 12.
- At least 12 is written as $x \ge 12$.
- Equal to 12 is written as x = 12.

