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From Equations to Inequalities

LESS THAN IS $<$

$f =$ lbs. of Fish

$f = 800$ lbs.

$800 < 999$ ✓

EQUALITY AND INEQUALITY SIGNS

$=$ $<$ $>$ \leq \geq

- 1 Recall the definitions of the mathematical relation signs.
- 2 Compare the amount of fishes skeeter fished with the catching limit of 999 lbs. per month.
- 3 Express the given problem exactly.
- 4 Find the mistakes.
- 5 Find the right expression.
- 6 Explain the expression.
- + 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](https://www.sofatutor.com) subscribers.



Recall the definitions of the mathematical relation signs.

Match the elements.

$=$ **A**

$<$ **B**

\leq **C**

$>$ **D**

\geq **E**

1 ... is greater than

2 ... is greater than or equal to

3 ... is less than

4 ... is equal to

5 ... is less than or equal to



Hints for solving these problems

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of 6

Recall the definitions of the mathematical relation signs.

Hint #1

$$999 = 999$$

This is an example for the $=$ sign.

Hint #2

- $800 < 999$
- $999 \not< 999$

When we want both $<$ and $=$ to be true, we use \leq :

- $800 \leq 999$
 - $999 \leq 999$
-

Hint #3

- $1250 > 999$
- $999 \not> 999$

When we want both $>$ and $=$ to be true, we use \geq :

- $1250 \geq 999$
 - $999 \geq 999$
-



Answers and detailed answer explanations for these problems

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of 6

Recall the definitions of the mathematical relation signs.

Answer key: A—4 // B—3 // C—5 // D—1 // E—2

SUMMARY	
Symbol	Read as
$x = y$	x is equal to y
$x < y$	x is less than y
$x \leq y$	x is less than or equal to y
$x > y$	x is greater than y
$x \geq y$	x is greater than or equal to y

Here you see the summary for all relation signs:

$=$ stands for **is equal to**. For example, $999 = 999$.

$<$ stands for **is less than**. For example, $800 < 999$.

\leq stands for **is less than or equal to**. For example, $800 \leq 999$ as well as $999 \leq 999$.

$>$ stands for **is greater than**. For example, $1250 > 999$.

\geq stands for **is greater than or equal to**. For example, $1250 \geq 999$ and also $999 \geq 999$.