

Intro - Linear Inequalities

1) What is an inequality?

2) What do the following symbols mean? Give an example for each using numbers.

$<$

\leq

$>$

\geq

\neq

3) State the three ways inequalities can be expressed. Include an example for each.

4) What is a boundary point?

5) What does an open circle mean with a boundary point? Give an example.

6) What does a closed circle mean with a boundary point? Give an example.

7) Express the inequality shown on the number line verbally and algebraically.



8) Represent the inequality $n < -12$ on a number line.

- 9) Write an inequality for the values shown on the number line. Describe a real-life scenario that the inequality might represent.



- 10) Show the possible values for x on a number line if $-7 \leq x$.

- 11) What is a different way to express $-7 \leq x$ algebraically?

- 12) The most extreme change in temperature in Canada took place in January 1962 in Pincher Creek, Alberta. A warm, dry wind, known as a chinook, raised the temperature from -19°C to 22°C in one hour. Represent the temperature during this hour using inequalities.

a) Express verbally.

b) Express graphically.

c) Express algebraically.



Hand in to Mrs. Coe to be checked!!!

