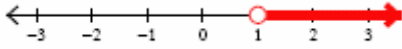


(4-5 & 4-6) ONE-STEP INEQUALITIES

An inequality has more than one solution.

EX: $x > 1$ the solutions are all real numbers that are greater than 1



EX: $x \leq 5$ the solutions are 5 and all real numbers less than 5



Solve: using the same inverse steps as equations

ONE NEW VERY IMPORTANT RULE!! If you multiply or divide by a (-) value then you must reverse the inequality symbol. (Not if you add or subtract!) It must be your "inverse" step, not necessary if your inverse is a positive number!

EX 1: $4x \leq 12$

EX 2: $1 \geq \frac{k}{-12}$

EX 3: $1.5r > -18.75$

EX 4: $5 + b < -2$

EX 5: $x - 4 \leq -3$