

MasterMath

Solving Inequalities with Addition and Subtraction

Name _____
Date _____

1. Solve for x: $16 + x > 22$

$x > 6$

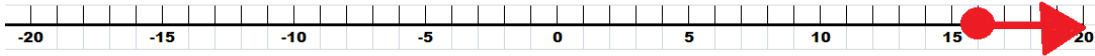
2. Solve for v: $v - 12 < 14 + 6$

$v < 32$

3. Solve for t: $t + 125 \geq 45$

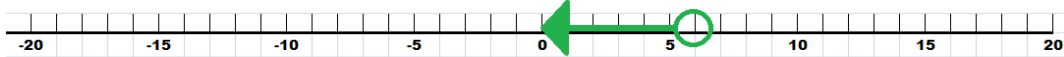
$t \geq -80$

4. Create an inequality to accurately describe these situation, and draw it on the number line:
You need to be at least 16 years old to get a driving learner's permit in most states.



$a \geq 16$

None of my friends are as tall as 6'



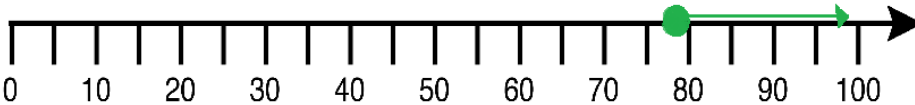
$f < 6$

Maximum legal occupancy is 125



$o \leq 125$

5. Write an inequality and solve for your required test score. Then graph the inequality.
"You've had 4 test scores in math: 78%, 87%, 89%, and 68%. You want to have an 80% average. What score do you need on the next test?"



$s \geq 78$

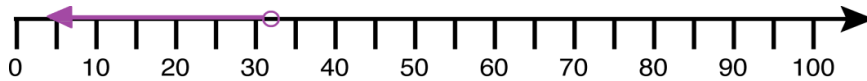
6. Solve this Inequality: $1.8 + x < 2.6 - 5.5$

$x < -4.7$

7. Solve this Inequality: $3/4 > x - 1/2$. Write your solution with the x to the left of the Inequality sign.

$x < 1\frac{1}{4}$

8. Does this number line describe the statement? If not, explain why not.
"At temperatures of 32 degrees or less, water becomes a solid."



The number line excludes 32 degrees, so it is not correct.

9. The Thunder scored 36 points in their last game, and won! Write an Inequality that describes their opponent's score.

$s < 36$

