

INEQUALITIES

Name: _____

Answers

/20

- in-class assignment: PLEASE HAND IN FOR MARKS @ the end of the class

[10] Show the following inequalities on a number line. Each inequality is to be shown on a separate number line.

1	$-5 \leq x < 10$	
2	$-20 < b < -15$	
3	$0 \geq y \geq -3$	
4	$0 \leq a \leq 10$	
5	$\frac{40}{2} < \frac{2x}{2} < \frac{50}{2}$	
6	$\frac{27}{3} > \frac{3x}{3} > \frac{-12}{3}$	
7	$-8 < a \leq 4$	
8	$x \geq 5$ <u>and</u> $x \leq -5$	
9	$x \geq 4$ $-5x \leq -x + 16$ $+x \quad +x$ $-4x \leq 16$ $\div -4 \quad \div -4$	
10	$-30 > -x - 30$ $+x \quad +x$	

no overlap

$$\begin{aligned}
 x - 30 &> -30 \\
 +30 \quad +30 \\
 x &> 0
 \end{aligned}$$