

Name: _____

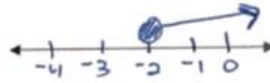
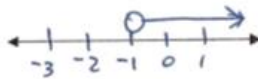
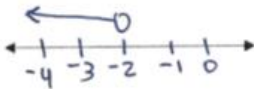
1. What step must you perform when you multiply or divide each side of an inequality by a negative number? *You must flip the inequality symbol.*

For each question below, solve the inequality, then graph it.

2. $\frac{-5}{-3}x > \frac{10}{-5}$
 $x < -2$

3. $-8y - 5 < 3$
 $+5 +5$
 $-8y < 8$
 $\div -8$
 $y > -1$

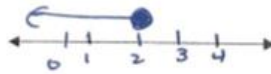
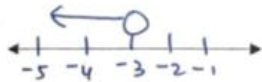
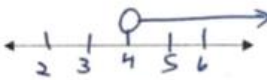
4. $-2n + 2 \leq 6$
 $-2 -2$
 $-2n \leq 4$
 $\div -2$
 $n \geq -2$



5. $10 - x < 6$
 $-10 -10$
 $-x < -4$
 $\div -1$
 $x > 4$

6. $-2x > 10$
 $-4 -4$
 $-2x > 6$
 $\div -2$
 $x < -3$

7. $\frac{x}{-2} + 5 \geq 4$
 $-5 -5$
 $\frac{x}{-2} \geq -1$
 $\div -2$
 $x \leq 2$



8. MULTIPLE CHOICE: Which graph correctly shows the solution set of $4 > x$?



$x < 4$

