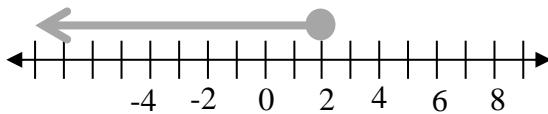
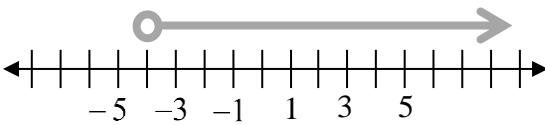


3-1 Inequalities and Their Graphs**Write the inequality represented by each graph**

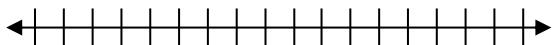
1.



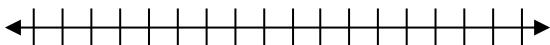
2.

**Graph each inequality.**

3. $-2 > f$



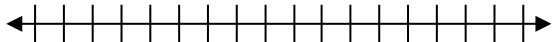
4. $n \geq -1$



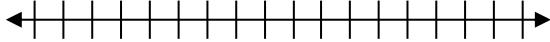
-
5. Define a variable and write an inequality to model this situation: A person must be at most 35 years old to participate in a certain medical study.

3-2 Solve Inequalities Using + or -**Solve each inequality and graph the solutions.**

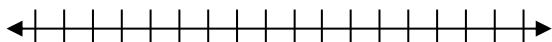
1. $v - 5 < 8$



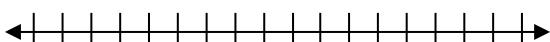
2. $d + 4 \geq -3$

**Graph each inequality.**

3. $0 \leq 2a - a - 3$



4. $t - 8 > -5$

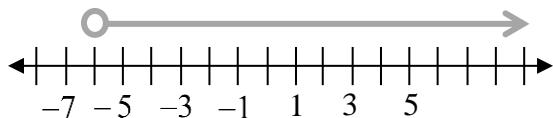


5. Describe and correct the error:

$$y - 2 > -4$$

$$+2 \quad +2$$

$$y > -6$$

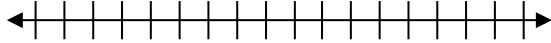


3-3 Solve Inequalities Using \times or \div **Solve each inequality and graph the solutions.**

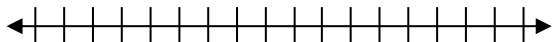
1. $\frac{5}{3}t \leq 15$



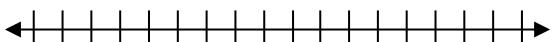
2. $\frac{g}{3} - 2 > 7$

**Graph each inequality.**

3. $6 < -3(x + 2)$



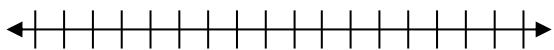
4. $-5 \leq \frac{x}{-3}$

**Identify a variable, write an inequality to represent this situation, and solve it.**

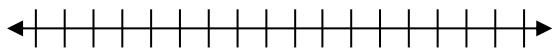
5. To remain on the football team, Steven must attend at least
- $\frac{3}{4}$
- of the study hall sessions offered. He attends 12 sessions. If Steven barely met the requirements, what is the maximum number of study hall sessions there could have been?

3-4 Solve Multi-Step Inequalities**Solve each inequality and graph the solutions.**

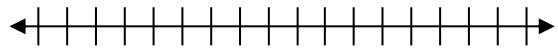
1. $3f - 12 < -24$



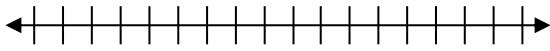
2. $\frac{4}{5}x - 8 \geq -4$



3. $2(3 - 4z) \leq -6z$



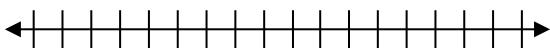
4. $4(k - 6) + 8 \geq 8(k + 3)$

**Identify a variable and write an inequality to represent the situation. Then solve it.**

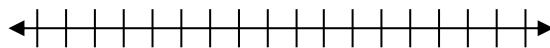
5. Brad has a budget of \$100 for going to the gym. The gym he uses charges \$25 for a monthly membership and \$4.50 per visit. How many times can Brad go to the gym and spend no more than \$100?

3-6 Compound Inequalities**Solve each compound inequality and graph the solutions.**

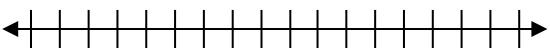
1. $-4 \leq x + 3 < 2$



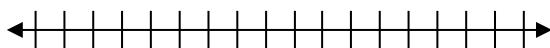
2. $-1 \leq \frac{q-2}{4} < 0$



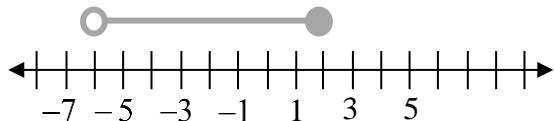
3. $3 - p \geq 5 \text{ and } p - 4 > -10$



4. $r - 3 < -2 \text{ or } r - 4 > -5$

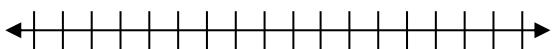


5. Write a compound inequality that could represent the graph.



3-7 Absolute Value Equations & Inequalities**Solve each and graph the solutions.**

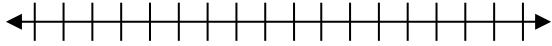
1. $|k - 4| > 3$



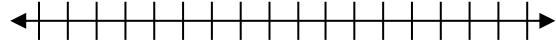
2. $|5 + g| < 1$



3. $|6 - 3c| \leq 9$



4. $|4n - 2| \geq 6$



5. $2 + 3|x + 4| = 8$

