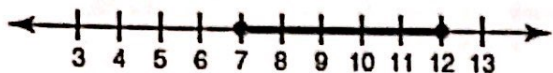


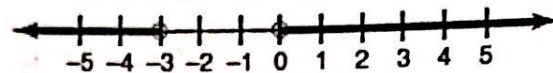
Day 6 - Compound Inequalities - Practice

Name the compound inequality from the graph.

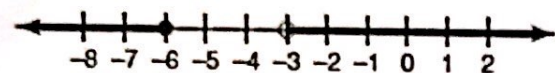
1. $7 \leq x \leq 12$



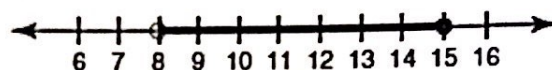
2. $x \leq -3$ or $x > 0$



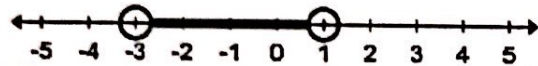
3. $x \leq -6$ OR $x > -3$



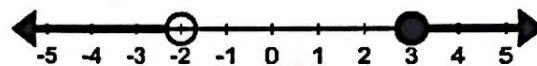
4. $8 < x \leq 15$



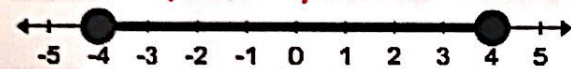
5. $-3 < x < 1$



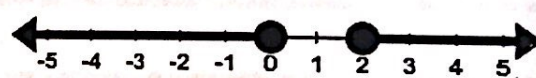
6. $x < -2$ OR $x \geq 3$



7. $-4 \leq x \leq 4$



8. $x \leq 0$ OR $x \geq 2$



Graph the compound inequality.

9. $6 < x \leq 7$



10. $x < 2$ or $x \geq 5$



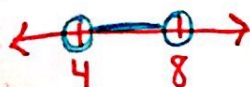
11. $x \leq -3$ or $x \geq 2$



12. $x \leq 5$ and $x > -1 \rightarrow -1 < x \leq 5$



13. $4 < x < 8$



14. $x \leq -9$ or $x > -5$



Create a compound inequality to represent each situation.

15. Most snakes must live in places where temperatures range between 75 to 90 degrees.

$$75 < x < 90$$

16. The cost of cell phones are either less than \$60 or more than \$110.

$$x < 60 \text{ or } x > 110$$

17. Your family needs 2 gallons of water this week, but they don't want to buy any more than 8 gallons.

$$2 \leq x \leq 8$$

18. To ride a roller coaster, your height must be at least 48 inches and no more than 78 inches.

$$48 \leq x \leq 78$$

19. To avoid an extra charge for your airline luggage, your bag must weigh less than 50 pounds.

$$0 < x < 50$$

20. The circumference of a women's basketball must be between 28.5 inches and 29 inches, inclusive.

$$28.5 \leq x \leq 29$$

21. The optimal temperature for a shark to thrive in water ranges from 18 degrees Celsius to 22 degree Celsius. Write an inequality that represents the temperatures in where sharks will not survive.

$$x < 18 \text{ or } x > 22$$