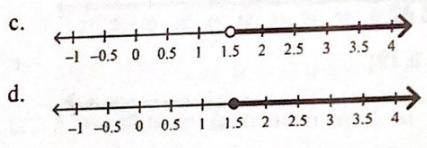
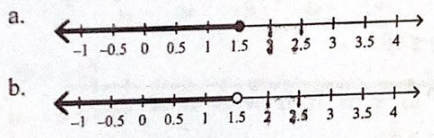


# Inequality Test Review

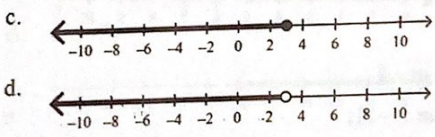
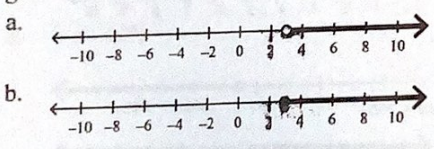
**Multiple Choice**  
 Identify the choice that best completes the statement or answers the question.

**Graph the inequality on a number line.**

1.  $q > 1.5$

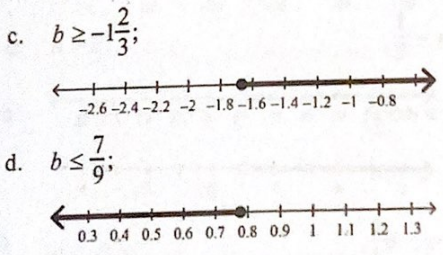
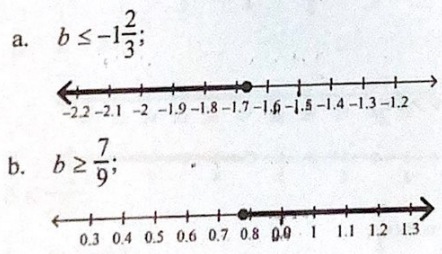


2.  $g \geq 3$

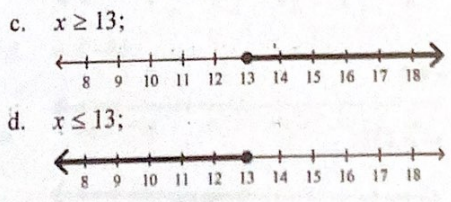
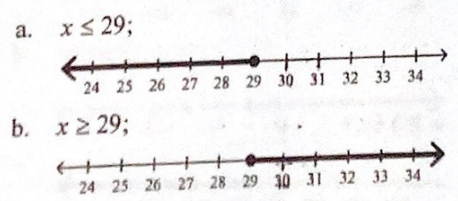


**Solve the inequality. Graph the solution.**

3.  $b - \frac{11}{9} \geq -\frac{4}{9}$



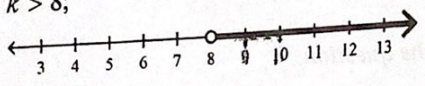
4.  $x + 8 \geq 21$



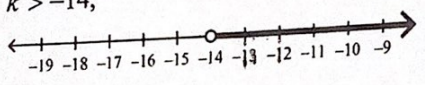
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5.  $k + 11 < -3$

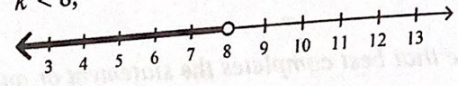
a.  $k > 8$ ;



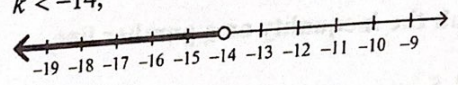
b.  $k > -14$ ;



c.  $k < 8$ ;

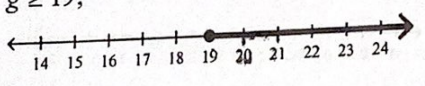


d.  $k < -14$ ;

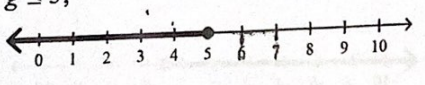


6.  $g - 7 \leq 12$

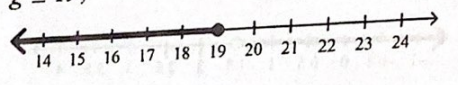
a.  $g \geq 19$ ;



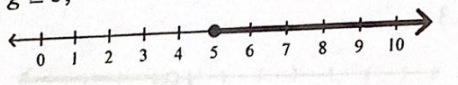
b.  $g \leq 5$ ;



c.  $g \leq 19$ ;

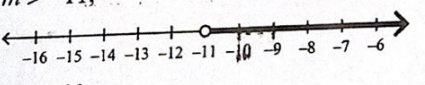


d.  $g \geq 5$ ;

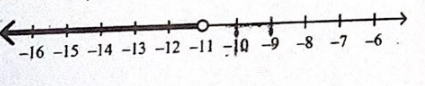


7.  $-7 < m - 4$

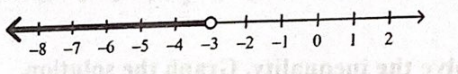
a.  $m > -11$ ;



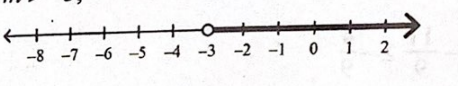
b.  $m < -11$ ;



c.  $m < -3$ ;

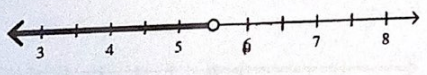


d.  $m > -3$ ;

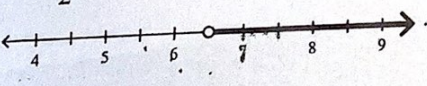


8.  $6 < v - \frac{1}{2}$

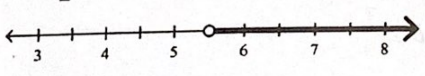
a.  $v < 5\frac{1}{2}$ ;



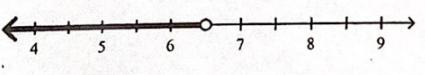
b.  $v > 6\frac{1}{2}$ ;



c.  $v > 5\frac{1}{2}$ ;

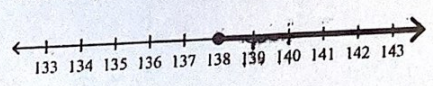


d.  $v < 6\frac{1}{2}$ ;

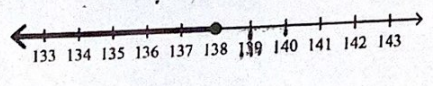


9.  $\frac{w}{15} \geq 9.2$

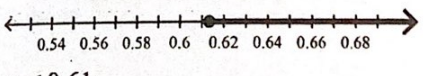
a.  $w \geq 138$ ;



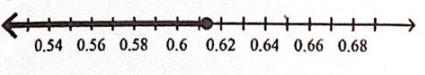
b.  $w \leq 138$ ;



c.  $w \geq 0.61$ ;



d.  $w \leq 0.61$ ;

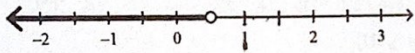


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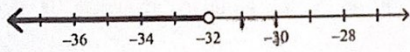
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10.  $-4 < -\frac{1}{8}x$

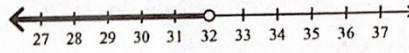
a.  $x < 0.5$ ;



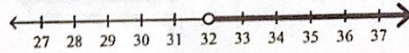
b.  $x < -32$ ;



c.  $x < 32$ ;

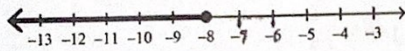


d.  $x > 32$ ;

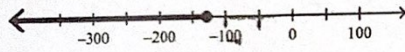


11.  $4b \geq -32$

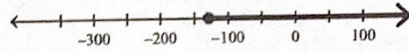
a.  $b \leq -8$ ;



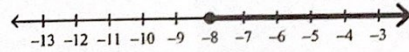
b.  $b \leq -128$ ;



c.  $b \geq -128$ ;

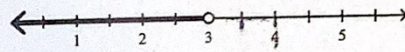


d.  $b \geq -8$ ;

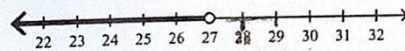


12.  $-\frac{1}{3}n > -9$

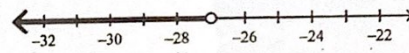
a.  $n < 3$ ;



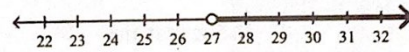
b.  $n < 27$ ;



c.  $n < -27$ ;

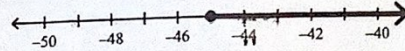


d.  $n > 27$ ;

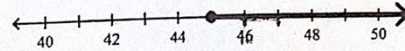


13.  $6 \leq \frac{w}{-7.5}$

a.  $w \geq -45$ ;



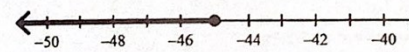
b.  $w \geq 45$ ;



c.  $w \leq -0.8$ ;



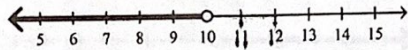
d.  $w \leq -45$ ;



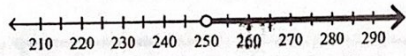
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14.  $-5p > -50$

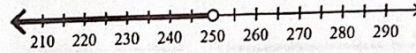
a.  $p < 10$ ;



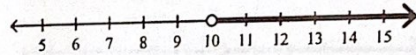
b.  $p > 250$ ;



c.  $p < 250$ ;



d.  $p > 10$ ;



Write the word sentence as an inequality.

15. A number  $b$  multiplied by  $-14$  is at most  $3\frac{1}{2}$ .

a.  $-\frac{14}{b} \leq 3\frac{1}{2}$

b.  $-14b < 3\frac{1}{2}$

c.  $-14b \leq 3\frac{1}{2}$

d.  $-14b \geq 3\frac{1}{2}$

16. A number  $k$  minus  $6.9$  is greater than  $43$ .

a.  $k - 6.9 > 43$

b.  $k - 6.9 \leq 43$

c.  $k - 43 \leq 6.9$

d.  $k - 6.9 \geq 43$

17. A number  $x$  is no less than  $45$ .

a.  $x > 45$

b.  $x \geq 45$

c.  $x < 45$

d.  $x \leq 45$

Write the word sentence as an inequality. Then solve the inequality.

18. A number divided by  $16$  is less than  $-21$ .

a.  $\frac{x}{16} \geq -21; x \geq -336$

b.  $\frac{x}{16} \leq -21; x \leq -336$

c.  $\frac{x}{16} < -21; x < -336$

d.  $\frac{x}{16} > -21; x > -336$

19. Eight times a number is at least  $-80$ .

a.  $8x > -80; x > -10$

b.  $8x < -80; x < -10$

c.  $8x \leq -80; x \leq -10$

d.  $8x \geq -80; x \geq -10$

20. Which inequality is represented by the graph shown below?



a.  $x > 3$

b.  $x \geq 3$

c.  $x < 3$

d.  $x \leq 3$