

# SOLVING LINEAR INEQUALITIES WORKSHEET

## ONE-STEP INEQUALITIES

Solve the following inequalities algebraically. Represent your solution on a number line.

1.  $2x < 8$

2.  $5y > 15$

3.  $b - 5 \leq -16$

4.  $q + 4 \geq -6$

5.  $-c > 7$

6.  $-2d \leq 6$

7.  $z + 10 \leq 10$

8.  $p + 4 \geq -6$

# ANSWERS

Solve the following inequalities algebraically. Represent your solution on a number line.

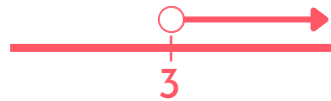
1.  $2x < 8$

$$x < 4$$



2.  $5y > 15$

$$y > 3$$



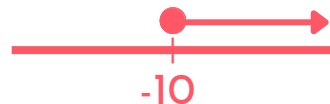
3.  $b - 5 \leq -16$

$$b \leq -11$$



4.  $q + 4 \geq -6$

$$q \geq -10$$



5.  $-c > 7$

$$c < -7$$

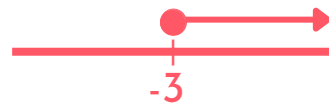
(Remember that when you multiply or divide by a negative number, the inequality sign flips)



6.  $-2d \leq 6$

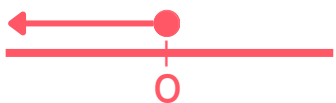
$$d \geq -3$$

(Remember that when you multiply or divide by a negative number, the inequality sign flips)



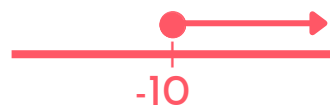
7.  $z + 10 \leq 10$

$$z \leq 0$$



8.  $p + 4 \geq -6$

$$p \geq -10$$





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