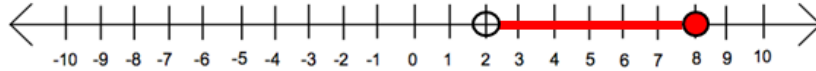


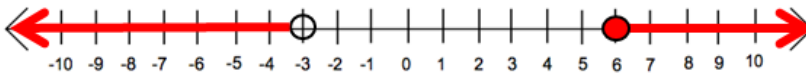
Compound Inequalities Quiz

The compound inequality: $2 < x \leq 8$ is represented on this graph on the number line.



- a) *True*
- b) *False*

The graph of the number line below represent this inequality: $x \leq -3$ or $x > 6$.



- a) *True*
- b) *False*

Solve: $-14 \leq 2x + 2 \leq 24$

- a) $-6 \leq x \leq 13$
- b) $-7 \leq x \leq 12$
- c) $-8 \leq x \leq 11$
- d) $-9 \leq x \leq 10$

Evaluate: $3x + 5 \leq 26$ or $2x - 14 \geq 8$

- a) $x \geq 7$ or $x \leq 11$
- b) $x \leq 5$ or $x \geq 12$
- c) $x \geq 5$ or $x \leq 12$
- d) $x \leq 7$ or $x \geq 11$

The inequality expression: $13 < x < 45$ is an example of an intersection between the set.

- a) *True*
- b) *False*

The union of the sets in compound inequality refer to using the word "and" in expression and finding out what sets have in common.

- a) *True*

b) *False*

Evaluate: $-25 < 3x - 4 \leq 11$

a) $-7 < x \leq 5$

b) $-10 < x \leq 3$

c) $-7 \leq x < 5$

d) $-10 \leq x < 3$

Solve for x : $\frac{1}{4}(8x - 16) < 4$ or $11 < 3(x + 5)$

a) $x > 4$ or $x < 2$

b) $2 < x < 4$

c) all real numbers

d) none of the above

The compound inequality: $-2.5 < x \leq 4.5$ is the same as this interval notation: $(-2.5, 4.5]$.

a) *True*

b) *False*

Find the solution: $\frac{1}{6}x - \frac{2}{3} \leq 2\frac{1}{3}$ or $\frac{1}{4}x + \frac{1}{2} > 16\frac{1}{2}$

a) $-48 < x \leq 18$

b) $-18 < x \leq 48$

c) $x \leq -48$ or $x > 18$

d) $x \leq 18$ or $x > 48$