

Identifying Solutions

One-step: S3

Choose the correct solution that best describes each inequality.

1) $|x - 2| \geq 10$

- a) $x \leq -12$ or $x \geq 8$ b) $x \geq -8$ and $x \leq 12$
 c) $x \geq -12$ and $x \leq 8$ d) $x \leq -8$ or $x \geq 12$

2) $\frac{|-x|}{7} \leq 4$

- a) $x \geq -28$ and $x \leq 28$ b) $x \geq 28$ or $x \leq -28$
 c) $x \leq -28$ d) No solution

3) $|x + 9| < -1$

- a) $x < -10$ or $x > -8$
 c) $x > 10$ or $x < 8$

- b) $x > 7$
 d) $x < -7$ or $x > 7$

5) $\frac{|x|}{5} > 3$

- a) $x > 15$
 c) $x > -15$ and $x < 15$

- b) $x \leq 21$ and $x \geq -17$
 d) $x \leq 17$ or $x \geq 21$

7) $-|7x| < 56$

- a) $-8 < x < 8$
 c) $x > -8$ d) No solution

- b) $x \geq 3$ or $x \leq -19$
 c) $x \geq -3$ and $x \leq 19$ d) No solution

9) $|x + 14| \leq 6$

- a) $x \geq -20$ and $x \leq 8$ b) $-8 \geq x \geq -20$
 c) $x \leq -20$ or $x \geq -8$ d) $x \leq -20$ or $x \geq 8$

10) $|x - 1| > 5$

- a) $x < -4$ or $x > 6$ b) $x > 4$ or $x < -6$
 c) $x > -6$ and $x < 4$ d) $x < 6$ and $x > -4$

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com

Identifying Solutions

One-step: S3

Choose the correct solution that best describes each inequality.

1) $|x - 2| \geq 10$

- a) $x \leq -12$ or $x \geq 8$ b) $x \geq -8$ and $x \leq 12$
 c) $x \geq -12$ and $x \leq 8$ ~~d) $x \leq -8$ or $x \geq 12$~~

2) $\frac{|-x|}{7} \leq 4$

- ~~a) $x \geq -28$ and $x \leq 28$~~ b) $x \geq 28$ or $x \leq -28$
 c) $x \leq -28$ d) No solution

3) $|x + 9| < -1$

- a) $x < -10$ or $x > -8$ ~~b) $x > 7$~~
 c) $x > 10$ or $x < 8$ ~~d) $x < -7$ or $x > 7$~~

5) $\frac{|x|}{5} > 3$

- a) $x > 15$ ~~b) $x \leq 21$ and $x \geq -17$~~
 c) $x > -15$ and $x < 15$ d) $x \leq 17$ or $x \geq 21$

7) $-|7x| < 56$

- a) $-8 < x < 8$ ~~b) $x \geq 3$ or $x \leq -19$~~
 c) $x > -8$ ~~d) No solution~~ c) $x \geq -3$ and $x \leq 19$ d) No solution

9) $|x + 14| \leq 6$

- a) $x \geq -20$ and $x \leq 8$ ~~b) $-8 \geq x \geq -20$~~
 c) $x \leq -20$ or $x \geq -8$ d) $x \leq -20$ or $x \geq 8$

10) $|x - 1| > 5$

- ~~a) $x < -4$ or $x > 6$~~ b) $x > 4$ or $x < -6$
 c) $x > -6$ and $x < 4$ d) $x < 6$ and $x > -4$

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com