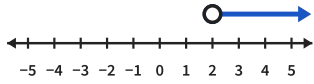


Inequalities on a Number Line

ANSWERS

1

Show $x > 2$ on the number line.



x is greater than 2

Circle open

2

Show $x \leq 1$ on the number line.

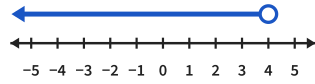


x is less than or equal to 1

Circle closed

3

Show $x < 4$ on the number line.

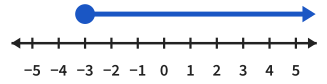


x is less than 4

Circle open

4

Show $x \geq -3$ on the number line.

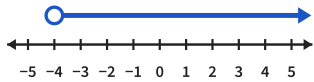


x is greater than or equal to -3

Circle closed

5

Show $x > -4$ on the number line.

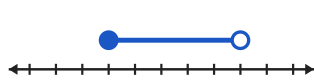


x is greater than -4

Circle open

6

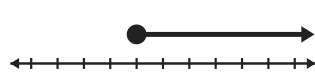
Show $-2 \leq x < 3$ on the number line.



Whole numbers -2, -1, 0, 1, 2

7

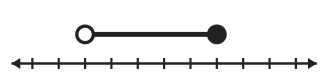
Write the inequality shown.



Inequality $x \geq -1$

8

Write the inequality shown.



Inequality $-3 < x \leq 2$

Inequalities on a Number Line *further practice*

ANSWERS

9

Write down the inequality shown.



closed at -1, open at 4

Inequality $-1 \leq x < 4$

10

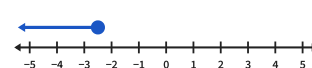
A swimming club is for children aged a years, where $8 \leq a < 12$. a is a whole number. List all the ages that can join.

12 is not included

Ages 8, 9, 10, 11

11

Show $x \leq -2.5$ on the number line.



closed circle at -2.5, arrow to the left

12

To go on a ride you must be at least 120 cm tall. Write an inequality for the height, h cm, of someone who can go on the ride.

120 cm is allowed

Inequality $h \geq 120$

13

Which of these numbers satisfy $-2 < x \leq 3$?

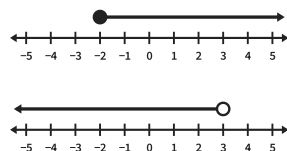
-2 **-1.5** **0** **3** 3.5

-2 is not included, 3 is

Answer -1.5, 0, 3

14

x satisfies both inequalities shown. Write one inequality for x . Then list the whole numbers it could be.

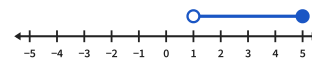


Inequality $-2 \leq x < 3$

Whole numbers -2, -1, 0, 1, 2

15

A fridge must be kept warmer than 1°C and no warmer than 5°C . Write an inequality for the temperature, $t^\circ\text{C}$. Show it on the number line.



Inequality $1 < t \leq 5$

16

Kim says there are 5 whole numbers that satisfy $-2 < x < 3$. Is Kim right? Explain.

-2 and 3 are not included

-1, 0, 1, 2: only 4

Answer No