



Represent inequalities on a number line

1

Which value satisfies the inequality shown on this number line?



A

-1

B

-5

C

-3

D

-14

2

Does $X = 4$ satisfy the inequality shown on this number line?



A

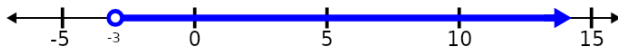
No

B

Yes

3

What inequality does this number line show?



A

$$-3 \leq X$$

B

$$-3 < X$$

C

$$X < -3$$

D

$$-3 \leq X < 0$$

4

Does the inequality $3 \leq X$ match this number line?



A

No

B

Yes

5

What inequality describes range on this number line?

$$\{Y \in \mathbb{R} \mid -3 \leq Y\}$$

A

$$-3 < Y$$

B

$$-3 \leq Y$$

6

What range does this inequality describe?

$$Y \leq 9$$

A

All real numbers less than or equal to 9

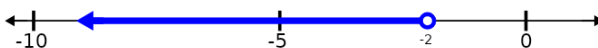
B

All real numbers

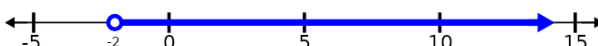
7

All real numbers greater than -2

A



B

**8**

What inequality describes the range on this number line?



A

$$-1 \leq Y < 4$$

B

$$-1 \leq Y$$



Represent inequalities on a number line

9

Which number line shows this inequality?

$$X < -5$$

A



B



C



D

**12**

Which number line shows this range?

$$\{Y \in \mathbb{R} | 3 < Y \leq 9\}$$

A



B

**10**

Which number line shows this range?

$$\{Y \in \mathbb{R} | 0 < Y\}$$

A



B

**11**

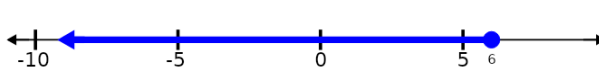
Which number line shows this inequality?

$$X \leq 6$$

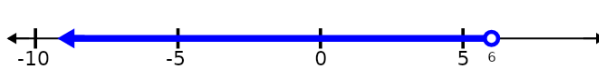
A



B



C



D

