

Graph inequalities on a number line

1

All real numbers greater than or equal to -1 and less than 9

A $\{Y \in \mathbb{R} \mid -1 \leq Y\}$

B $\{Y \in \mathbb{R} \mid -1 \leq Y < 9\}$

2

What inequality describes range on this number line?

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

A

$$Y < 3$$

B

$$Y \leq 3$$

3

What range does this inequality describe?

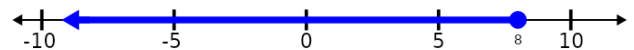
$$Y < 6$$

A All real numbers less than or equal to 6

B All real numbers less than 6

4

What domain does this number line show?



A

All real numbers less than 8

B

All real numbers less than or equal to 8

5

What inequality does this number line show?



A $1 < X$

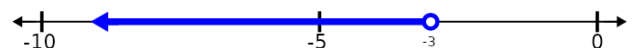
B $X < 1$

C $X < 0$

D $1 \leq X$

6

What inequality describes the range on this number line?



A

$$Y < -3$$

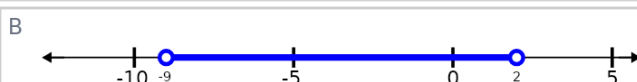
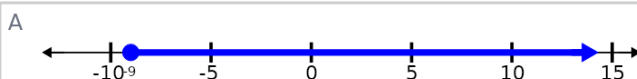
B

$$Y \leq -3$$

7

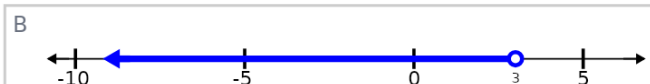
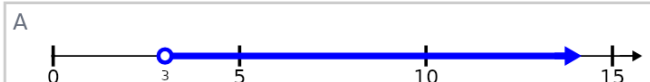
Which number line shows this domain?

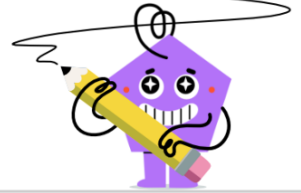
$$\{X \in \mathbb{R} \mid -9 \leq X\}$$

**8**

Which number line shows this range?

$$Y < 3$$





Graph inequalities on a number line

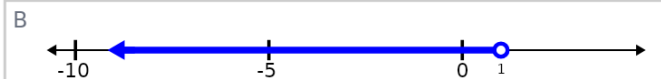
9

All real numbers greater than -5 and less than or equal to 1

**10**

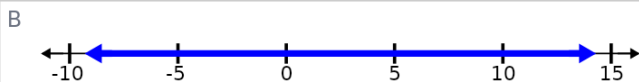
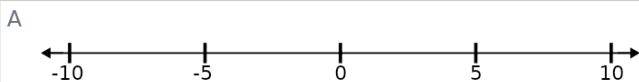
Which number line shows this range?

$$\{Y \in \mathbb{R} | Y \leq 1\}$$

**11**

Which number line shows this domain?

$$-\infty < X < \infty$$

**12**

All real numbers less than 1

