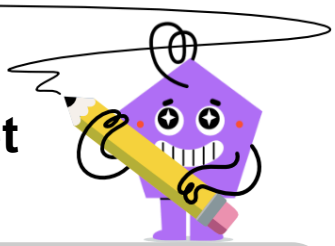
Name

Function Domain/Range Definition - Set Builder to Inequality (Without Union)



1 What inequality describes range on this number line?

$$\{Y \in \mathbb{R} | 1 < Y < 9\}$$

A $1 \leq Y < 9$

B $1 < Y < 9$

2 What inequality describes domain on this number line?

$$\{X \in \mathbb{R} | X < -2\}$$

A $X \leq -2$

B $X < -2$

3 What inequality describes domain on this number line?

$$\{X \in \mathbb{R} | -6 < X < 7\}$$

A $-6 < X < 7$

B $-6 \leq X \leq 7$

4 What inequality describes range on this number line?

$$\{Y \in \mathbb{R} | 0 \leq Y \leq 4\}$$

A $0 \leq Y \leq 4$

B $Y \leq 4$

5

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

What inequality describes range on this number line?

A $-\infty < Y < \infty$

B $-10 \leq Y$

6

$$\{X \in \mathbb{R} | X < 2\}$$

What inequality describes domain on this number line?

A $-8 < X \leq 2$

B $X < 2$

7

$$\{X \in \mathbb{R} | 4 < X\}$$

What inequality describes domain on this number line?

A $-\infty < X < \infty$

B $4 < X$

8 What inequality describes range on this number line?

$$\{Y \in \mathbb{R} | -3 < Y < 8\}$$

A $-3 \leq Y$

B $-3 < Y < 8$