Name

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

1 What set describes the domain of this inequality? $-10 \leq X < -5$

A $\{X \in \mathbb{R} | -10 < X < -5\}$

B $\{X \in \mathbb{R} | -10 \leq X < -5\}$

2 $2 < X$

What set describes the domain of this inequality?

A	B
$\{X \in \mathbb{R} \mid 2 < X\}$	$\{X \in \mathbb{R} \mid 2 \leq X\}$

3 $Y \leq 4$

What set describes the range of this inequality?

A	B
$\{Y \in \mathbb{R} \mid Y \leq 4\}$	$\{Y \in \mathbb{R} \mid Y < 4\}$

4 What set describes the range of this inequality? $-1 < Y < 4$

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

B $\{Y \in \mathbb{R} | -1 < Y < 4\}$

5 $Y \leq 7$

What set describes the range of this inequality?

A	B
$\{Y \in \mathbb{R} \mid Y \leq 7\}$	$\{Y \in \mathbb{R} \mid\}$

6 What set describes the range of this inequality? $-4 < Y < 7$

A $\{Y \in \mathbb{R} | -4 \leq Y < 7\}$

B $\{Y \in \mathbb{R} | -4 < Y < 7\}$

7 $-8 < Y$

What set describes the range of this inequality?

A $\{Y \in \mathbb{R} \mid\}$

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

8 $X \leq 9$

What set describes the domain of this inequality?

A	B
$\{X \in \mathbb{R} \mid\}$	$\{X \in \mathbb{R} \mid X \leq 9\}$