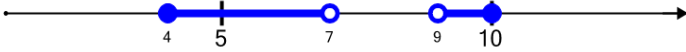


Function Domain/Range Definition - Number Line to Set Builder (With Union)

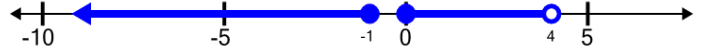
1 Which set describes the domain on this number line?



A $\{X \in \mathbb{R} | 4 \leq X < 7 \text{ or } 9 < X \leq 10\}$

B $\{X \in \mathbb{R} | 4 \leq X \leq 7 \text{ or } 9 \leq X < 10\}$

2 Which set describes the range on this number line?



A $\{Y \in \mathbb{R} | Y \leq -1 \text{ or } 0 < Y < 4\}$

B $\{Y \in \mathbb{R} | Y \leq -1 \text{ or } 0 \leq Y < 4\}$

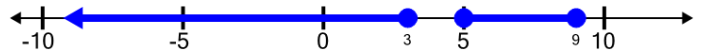
3 Which set describes the domain on this number line?



A $\{X \in \mathbb{R} | -7 \leq X \leq 7 \text{ or } 8 \leq X\}$

B $\{X \in \mathbb{R} | X \leq 7 \text{ or } 8 < X\}$

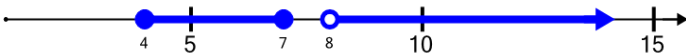
4 Which set describes the range on this number line?



A $\{Y \in \mathbb{R} | -3 \leq Y \leq 3 \text{ or } 5 < Y < 9\}$

B $\{Y \in \mathbb{R} | Y \leq 3 \text{ or } 5 \leq Y \leq 9\}$

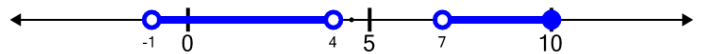
5 Which set describes the domain on this number line?



A $\{X \in \mathbb{R} | 4 \leq X \leq 7 \text{ or } 8 < X\}$

B $\{X \in \mathbb{R} | 4 < X < 7 \text{ or } 8 \leq X < 10\}$

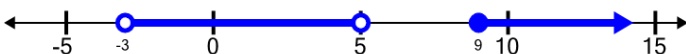
6 Which set describes the range on this number line?



A $\{Y \in \mathbb{R} | -1 < Y < 4 \text{ or } 7 < Y \leq 10\}$

B $\{Y \in \mathbb{R} | -1 \leq Y \leq 4 \text{ or } 7 < Y\}$

7 Which set describes the domain on this number line?



A $\{X \in \mathbb{R} | -3 \leq X \leq 5 \text{ or } 9 < X\}$

B $\{X \in \mathbb{R} | -3 < X < 5 \text{ or } 9 \leq X\}$

8 Which set describes the domain on this number line?



A $\{X \in \mathbb{R} | X \leq 2 \text{ or } 4 \leq X\}$

B $\{X \in \mathbb{R} | X < 2 \text{ or } 4 \leq X\}$