



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

1 Which set describes this range? All integers greater than -1 and less than 7

| | |
|---|-------------------------------------|
| A | B |
| $\{Y \in \mathbb{Z} -1 \leq Y \leq 7\}$ | $\{Y \in \mathbb{Z} -1 < Y < 7\}$ |

2 Which set describes this domain?

All integers greater than or equal to 2 and less than or equal to 8

A $\{X \in \mathbb{Z} | 2 < X < 8\}$

B $\{X \in \mathbb{Z} | 2 \leq X \leq 8\}$

3 Which set describes this domain? All real numbers greater than or equal to 4

| | |
|-----------------------------------|-----------------------------------|
| A | B |
| $\{X \in \mathbb{R} 4 \leq X\}$ | $\{X \in \mathbb{R} X \leq 4\}$ |

4 Which set describes this range? All real numbers less than or equal to -4

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

5 Which set describes this domain? All real numbers less than 9

| | |
|--------------------------------|--------------------------------|
| A | B |
| $\{X \in \mathbb{R} 9 < X\}$ | $\{X \in \mathbb{R} X < 9\}$ |

6 Which set describes this range? All real numbers

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

7 Which set describes this range?

All real numbers greater than -9 and less than or equal to -5

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

B $\{Y \in \mathbb{R} | -9 \leq Y < -5\}$

8 Which set describes this domain? All real numbers less than 4

| | |
|--------------------------------|--------------------------------|
| A | B |
| $\{X \in \mathbb{R} 4 < X\}$ | $\{X \in \mathbb{R} X < 4\}$ |