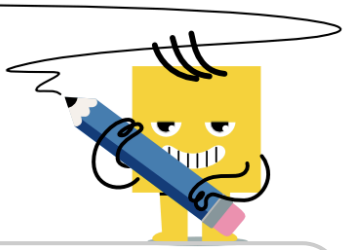
Name



# Function Domain/Range Definition - Words to Inequality (With Union)

**1** What inequality describes this domain?

All real numbers less than or equal to -3 OR greater than -2

A

$X \leq -3 \text{ or } -2 < X$

B

$X \leq -3 \text{ or } -2 < X < 2$

**2**

All real numbers greater than -2 and less than 7 OR greater than 7

What inequality describes this range?

A

$-2 \leq Y < 7 \text{ or } -7 < Y < 7$

B

$-2 < Y < 7 \text{ or } 7 < Y$

**3**

All real numbers greater than or equal to -2 and less than or equal to 6 OR greater than or equal to 8

What inequality describes this domain?

A

$-2 \leq X \leq 6 \text{ or } 8 \leq X$

B

$-2 < X < 6 \text{ or } -8 \leq X \leq 8$

**4** What inequality describes this domain?

All real numbers less than 7 OR greater than or equal to 11

A

$X \leq 7 \text{ or } 11 < X$

B

$X < 7 \text{ or } 11 \leq X$

**5**

All real numbers greater than -10 and less than 4 OR greater than 4

What inequality describes this domain?

A

$-10 < X < 4 \text{ or } 4 < X$

B

$-10 \leq X \leq 4 \text{ or } 4 < X$

**6**

All real numbers less than -2 OR greater than 0 and less than or equal to 5

What inequality describes this range?

A

$Y < -2 \text{ or } 0 < Y \leq 5$

B

$-2 < Y < 2 \text{ or } 0 < Y \leq 5$

**7** What inequality describes this domain?

All real numbers less than 7 OR greater than 7

A

$X < 7 \text{ or } 7 < X$

B

$X \leq 7 \text{ or } -7 < X < 7$

**8**

All real numbers greater than or equal to 3 and less than or equal to 7 OR greater than or equal to 8 and less than or equal to 10

What inequality describes this domain?

A

$3 \leq X \leq 7 \text{ or } 8 \leq X \leq 10$

B

$3 \leq X \leq 7 \text{ or } 8 < X < 10$