



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

1

What inequality describes this domain?

All real numbers greater than 2 and less than or equal to 5 OR greater than or equal to 9 and less than 18

A
 $2 < X \leq 5 \text{ or } 9 \leq X < 18$

B
 $2 < X \leq 5 \text{ or } 9 \leq X$

2

What inequality describes this range?

All real numbers greater than 2 and less than or equal to 8 OR greater than 11

A
 $2 < Y \leq 8 \text{ or } 11 < Y$

B
 $2 < Y \leq 8 \text{ or } 11 \leq Y$

3

What inequality describes this domain?

All real numbers greater than -2 and less than 7 OR greater than 11 and less than 17

A
 $-2 < X < 7 \text{ or } 11 < X < 17$

B
 $-2 < X < 7 \text{ or } 11 \leq X < 17$

4

What inequality describes this range?

All real numbers less than -2 OR greater than or equal to 2 and less than or equal to 9

A
 $Y < -2 \text{ or } 2 \leq Y \leq 9$

B
 $Y < -2 \text{ or } 2 \leq Y < 9$

5

What inequality describes this range?

All real numbers greater than or equal to -4 and less than or equal to 5 OR greater than 9 and less than 12

A
 $-4 \leq Y \leq 5 \text{ or } 9 < Y < 12$

B
 $-4 < Y \leq 5 \text{ or } 9 \leq Y < 12$

6

What inequality describes this range?

All real numbers less than 4 OR greater than or equal to 6 and less than or equal to 10

A
 $Y < 4 \text{ or } 6 \leq Y \leq 10$

B
 $-6 \leq Y \leq 4 \text{ or } 6 < Y < 10$

7

What inequality describes this range?

All real numbers less than or equal to -1 OR greater than 0

A
 $Y < -1 \text{ or } 0 < Y$

B
 $Y \leq -1 \text{ or } 0 < Y$

8

What inequality describes this domain?

All real numbers less than 4 OR greater than 4 and less than or equal to 7

A
 $-4 \leq X \leq 4 \text{ or } 4 < X < 7$

B
 $X < 4 \text{ or } 4 < X \leq 7$