



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

1 What range does this inequality describe?

$$-9 \leq Y < 4 \text{ or } 6 \leq Y$$

A All real numbers greater than or equal to -9 and less than 4 OR greater than or equal to 6

B All real numbers greater than or equal to -9 and less than 4 OR greater than 6

2 What range does this inequality describe?

$$-10 \leq Y < 5 \text{ or } 9 < Y$$

A All real numbers greater than or equal to -10 and less than 5 OR greater than 9

B All real numbers greater than or equal to -10 and less than or equal to 5 OR greater than or equal to 9

3 What range does this inequality describe?  $Y < 0 \text{ or } 3 \leq Y$

A All real numbers less than 0 OR greater than or equal to 3

B All real numbers greater than -1 and less than 1 OR greater than or equal to 3 and less than 6

4 What range does this inequality describe?

$$1 < Y \leq 5 \text{ or } 8 \leq Y$$

A All real numbers less than or equal to 5 OR greater than 8

B All real numbers greater than 1 and less than or equal to 5 OR greater than or equal to 8

5 What range does this inequality describe?

$$-10 \leq Y \leq 1 \text{ or } 5 \leq Y < 8$$

A All real numbers greater than or equal to -10 and less than or equal to 1 OR greater than or equal to 5 and less than 8

B All real numbers greater than or equal to -10 and less than or equal to 1 OR greater than or equal to 5 and less than 8

6 What range does this inequality describe?

$$-9 \leq Y < -2 \text{ or } 1 \leq Y$$

A All real numbers greater than -9 and less than -2 OR greater than 1

B All real numbers greater than or equal to -9 and less than -2 OR greater than or equal to 1

7 What range does this inequality describe?

$$-8 \leq Y \leq -3 \text{ or } 1 \leq Y < 7$$

A All real numbers greater than or equal to -8 and less than or equal to -3 OR greater than or equal to 1 and less than 7

B All real numbers greater than -8 and less than -3 OR greater than 1 and less than 7

8 What domain does this inequality describe?

$$-5 < X < 0 \text{ or } 1 \leq X < 4$$

A All real numbers greater than -5 and less than 0 OR greater than or equal to 1 and less than 4

B All real numbers greater than or equal to -5 and less than or equal to 0 OR greater than 1 and less than 4