

Write and solve simple inequalities

1

What inequality does this number line show?



A

$$-1 < X < 1$$

B

$$0 < X$$

C

$$X \leq 0$$

D

$$0 \leq X$$

2

What range does this number line show?



A

All real numbers
greater than or equal
to -7

B

All real numbers

3

What inequality describes the domain on this number line?



A

$$2 \leq X$$

B

$$X \leq 2$$

4

What domain does this inequality describe?

$$X \leq 7$$

A

All real numbers less than or equal to 7

B

All real numbers

5

All real numbers less than 2

A

$$2 < Y$$

B

$$Y < 2$$

6

Which number line shows this domain?

$$3 \leq X$$

A



B

**7**What set describes the domain of this
function?

$$f(x) = \sqrt{1x - 1}$$

A

$$\{X \in \mathbb{R} | X < 9\}$$

B

$$\{X \in \mathbb{R} | 1 \leq X\}$$

8What set describes the domain of this
function?

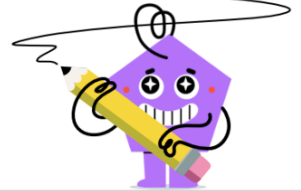
$$f(x) = \sqrt{1x - 2}$$

A

$$\{X \in \mathbb{R} | 2 < X\}$$

B

$$\{X \in \mathbb{R} | 2 \leq X\}$$

**Write and solve simple inequalities****9**

What set describes the domain of this function?

$$f(x) = \sqrt{1x - 5}$$

A

$$\{X \in \mathbb{R} | X \leq 5\}$$

B

$$\{X \in \mathbb{R} | 5 \leq X\}$$

10

What set describes the domain of this function?

$$f(x) = \sqrt{1x + 1}$$

A

$$\{X \in \mathbb{R} | -1 \leq X\}$$

B

$$\{X \in \mathbb{R} | X \leq -1\}$$

11

What set describes the domain of this function?

$$f(x) = \sqrt{-1x + 1}$$

A

$$\{X \in \mathbb{R} | X < 1\}$$

B

$$\{X \in \mathbb{R} | X \leq 1\}$$

12

What set describes the domain of this function?

$$f(x) = \sqrt{-1x + 3}$$

A

$$\{X \in \mathbb{R} | X \leq 3\}$$

B

$$\{X \in \mathbb{R} | -8 < X\}$$