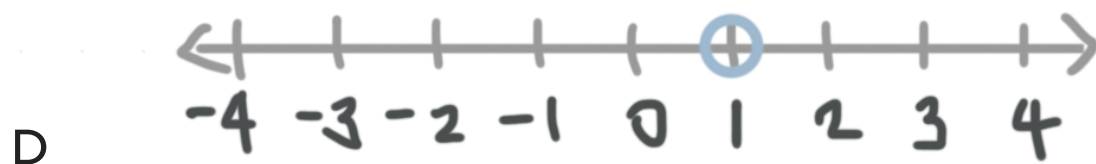
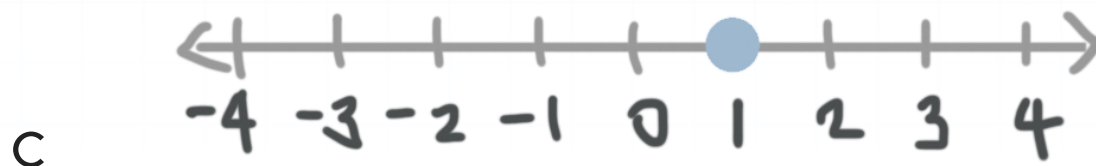
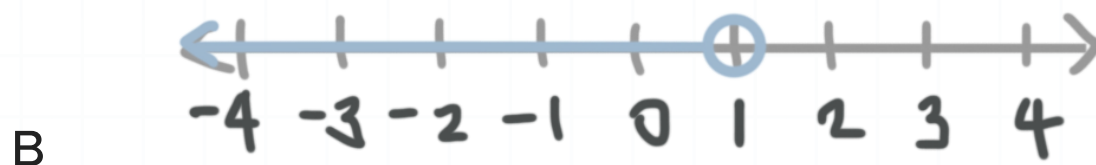
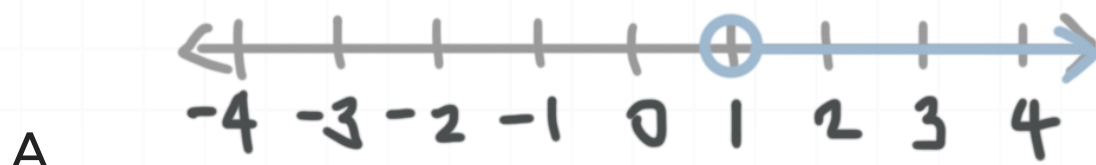


Topic: Graphing inequalities on a number line**Question:** Graph $x > 1$ on a number line.**Answer choices:**

Solution: A

Since the solution consists of all the numbers greater than 1, and “greater than” in the inequality $x > 1$ means “to the right of” on a number line, the ray we draw must start at 1 and extend out to the right. Since the solution does not include 1, we draw an open circle at 1.

Then the graph of $x > 1$ on a number line is



Topic: Graphing inequalities on a number line**Question:** Graph $x < -2$ on a number line.**Answer choices:**

A



B



C



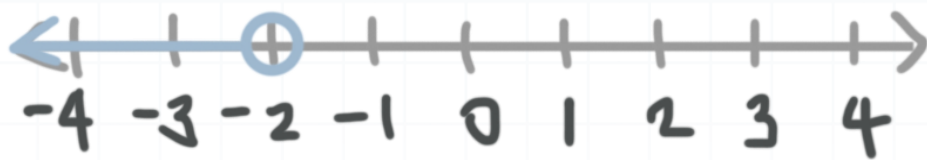
D



Solution: C

Since the solution consists of all the numbers less than -2 , and “less than” in the inequality $x < -2$ means “to the left of” on a number line, the ray we draw must start at -2 and extend out to the left. Since the solution does not include -2 , we draw an open circle at -2 .

Then the graph of $x < -2$ on a number line is



Topic: Graphing inequalities on a number line**Question:** Graph $x \leq 5$ on a number line.**Answer choices:**

Solution: A

Since the solution consists of all the numbers less than or equal to 5, and “less than” in the inequality $x \leq 5$ means “to the left of” on a number line, the ray we draw must start at 5 and extend out to the left. Since the solution includes 5, we draw a solid circle at 5.

Then the graph of $x \leq 5$ on a number line is

