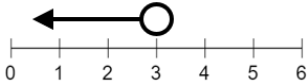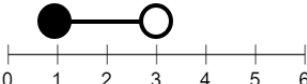# True or False?

Linear Inequalities

For each statement, circle the correct response.

1	The inequality $x < 3$ is represented on the number line as :	**True**	False
2	The inequality $1 < x \leq 3$ is represented on the number line as :	True	**False**
3	The integers $2, 3$ and 4 all satisfy the inequality $x < 4$	True	**False**
4	The integers $-1, 0$ and 1 are the only integers to satisfy the inequality $-1 \leq x < 2$	**True**	False
5	The only integer to satisfy both inequalities $-1 \leq x < 4$ and $2 < x \leq 6$ is 3.	**True**	False
6	The solution to the inequality $x - 3 > 5$ is $x > 2$	True	**False**
7	The solution to the inequality $-4x \leq 20$ is $x \geq -5$	**True**	False
8	The solution to the inequality $20 > 3x - 1$ is $x < 7$	**True**	False
9	The integers $-3, -2$ and -1 all satisfy the inequality $-2 \leq x + 1 < 0$	True	**False**
10	The solution to the inequality $-8 \leq 8x < 56$ is $-1 \geq x > 7$	True	**False**
11	The solution to the inequality $2x - 4 < 6 - 3x \leq 21$ is $-5 \leq x < 2$	**True**	False