Adeel HW: Linear inequalities and number lines

- **Due Thursday 19th February 2026**
- **Answer the following questions.**
- **For questions 1-3 you will need a draw the inequality on a number line. For this you can use the GeoGebra tool I have posted on google classroom, and take screenshots of the number line you create**
- **If you prefer to answer on a separate piece of paper and handwrite your answers and then send me a scan to mark, that is also fine**

1. Match up task: (Hint – remember that we read from left to right)

1.	>	Less than or equal to	
2.	<	Greater than	
3.	≥	Less than	
4.	≤	Greater than or equal to	

2. x is greater than -5 and is less than or equal to 3. Write this as an inequality:

3. a) Write the following inequality in words as was done in question 1: $0 \leq y \leq 2$.

   y is _____ than ____ and _____ than ____

   b) Select all the possible values of y from the following list given $0 \leq y \leq 2$:

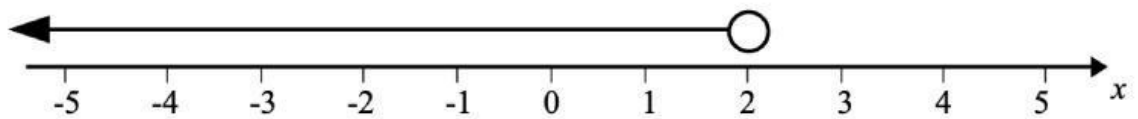   -5   -4   -3   -2   -1   0   1   2   3   4   5

4. Represent the following inequality on a number line: x > -3 (Use the GeoGebra tool to draw number line and inequality)

5. **Represent the following inequality on a number line: -4 ≤ x < 2**

6. **Represent the following inequality on a number line: y ≤ 5**
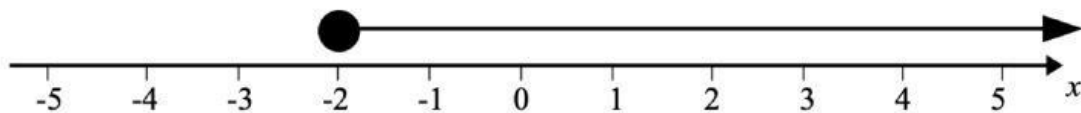
7.

Write down the inequality shown on the number line.

8.

Write down the inequality shown on the number line.

9.

Write down the inequality shown on the number line.