

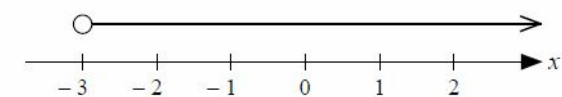
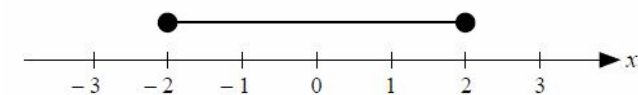
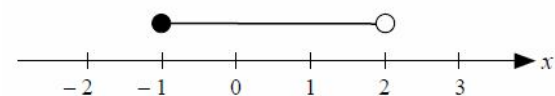
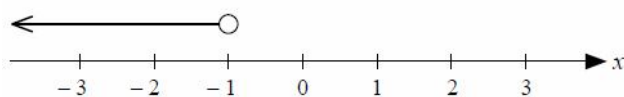
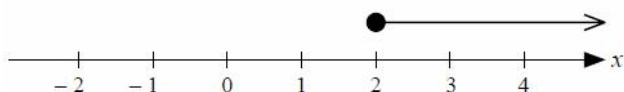
(1) Complete the box below

Inequality	How do you read this?
$x > 5$	
$x < 10$	
$x \leq 2$	
$x \geq 1$	
$3 \leq x < 7$	

(2) State 3 integers that satisfy the following inequalities

- $x < 4$  \_\_\_\_\_
- $p \geq 3$  \_\_\_\_\_
- $t \geq -2$  \_\_\_\_\_
- $y \leq -5$  \_\_\_\_\_
- $2 \leq x < 10$  \_\_\_\_\_

(3) Write the inequality shown below next to each graph



(4) Fill out the table below

Symbol	Type of dot I use on a number line
$<$	
$>$	
$\leq$	
$\geq$	

(5) Using the numbers lines below, graph the following inequalities (check a point to confirm you are right!)

$x > 3$

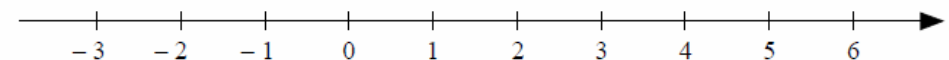
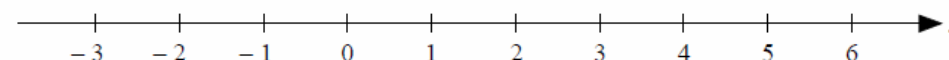
$x \leq 5$

$1 \leq x \leq 6$

$x \geq 1$

$x < 0$

$-2 \leq x < 4$



(6) Solve the following inequalities

$2x < 1$  \_\_\_\_\_

$3x - 1 > 5$  \_\_\_\_\_

$4x + 1 \geq 9$  \_\_\_\_\_

$2x - 1 \leq 7$  \_\_\_\_\_

\*Extension – represent the inequalities above on a number line\*

Answers

Inequality	How do you read this?
$X > 5$	X is greater than 5
$X < 10$	X is less than 10
$X \leq 2$	X is equal or less than 2
$X \geq 1$	X is equal or bigger than 1
$3 \leq x < 7$	X is between 3 and 7 including 3

(2) State 3 integers that satisfy the following inequalities

**$x < 4$**  any whole number 3 or less 3,2,1 etc

**$p \geq 3$**  any whole number 3 or above 3,4,5 etc

**$t \geq -2$**  any whole number -2 or above, -2,-1,0,1,2

**$y \leq -5$**  any whole number -5 or lower -5,-6,-7 etc

**$2 \leq x < 10$**  any from 2 to 9 (2 is included)

(3) Write the inequality shown below next to each graph

**$x \geq 2$**

**$x < -1$**

**$-1 \leq x < 2$**

**$-2 \leq x \leq 2$**

**$x > -3$**

(4) Fill out the table below

Symbol	Type of dot I use on a number line
$<$	Open dot $\circ$
$>$	Open dot $\circ$
$\leq$	Closed dot $\bullet$
$\geq$	Closed dot $\bullet$

(5) Using the numbers lines below, graph the following inequalities (check a point to confirm you are right!)

**$x > 3$**

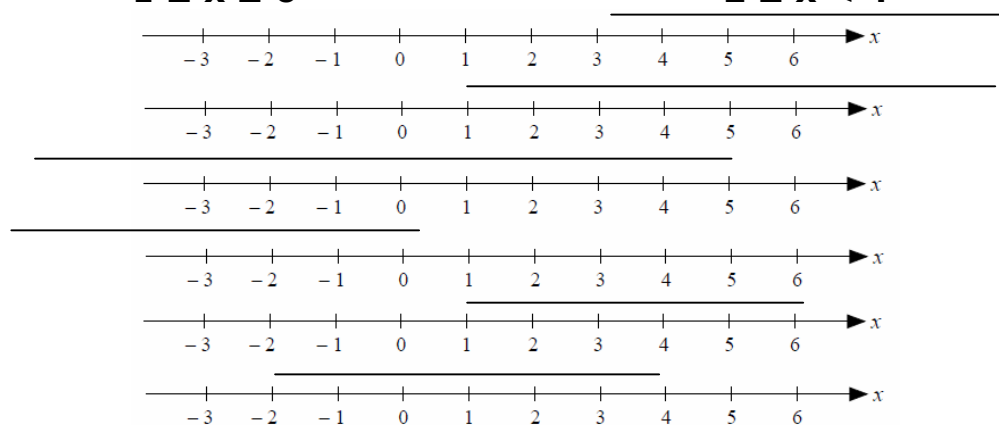
**$x \leq 5$**

**$1 \leq x \leq 6$**

**$x \geq 1$**

**$x < 0$**

**$-2 \leq x < 4$**



(6) Solve the following inequalities

**$2x < 1$**

**$3x - 1 > 5$**

**$4x + 1 \geq 9$**

**$2x - 1 \leq 7$**

**$x < 1/2$**

**$x > 2$**

**$x \geq 2$**

**$x \leq 4$**

\*Extension – represent the inequalities above on a number line\*