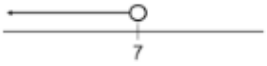
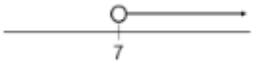
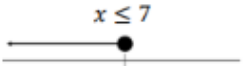
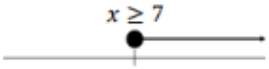
Key words and symbols: what I need to say and write accurately

Word or symbol	Explanation	Phrases meaning 'less than'	Phrases meaning 'greater than'
>	is greater than	$x < 7$ 	$x > 7$ 
<	is less than	*any number which is...*	*any number which is...*
≥	is greater than or equal to	less than 7	greater than 7
≤	is less than or equal to	up to (but not including) 7	exceeding 7
equation	a statement that two quantities have equal value, e.g. 5 + 2 = 10 – 3	up to (and excluding) 7	
Inequality	a statement that two quantities do not have equal value, e.g. 5 + 2 < 12 + 1	Phrases meaning 'less than or equal to'	Phrases meaning 'greater than or equal to'
comparative inequality	an inequality that compares two values, e.g. $4 > 1$ or $x > 8$ or $1 \leq x$	$x \leq 7$ 	$x \geq 7$ 
restrictive inequality	a 'double' inequality that puts an upper and lower limit on a number, e.g. $5 \leq x < 10$	*any number which is...*	*any number which is...*
		less than or equal to 7	greater than or equal to 7
		at most 7	at least 7
		no greater/more than 7	no less than 7
		up to (and including) 7	

Fingertip facts: what I need to learn by heart

Inequalities can be read in both directions.
These two statements mean the same thing.

$5 > 3$ $\qquad$ $3 < 5$

read this way → *5 is greater than 3*	read this way ← *5 is greater than 3*
read this way ← *3 is less than 5*	read this way → *3 is less than 5*

If we multiply or divide an inequality by a negative number, the direction of the sign reverses due to the rotating effect of multiplication by negatives.

If $-x > 2$,
then $x < -2$

