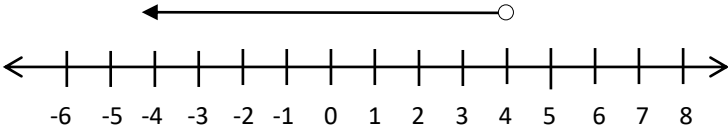
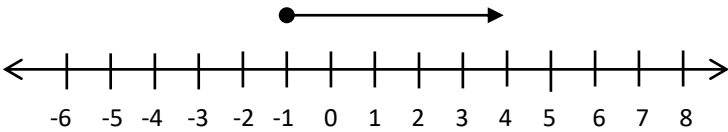
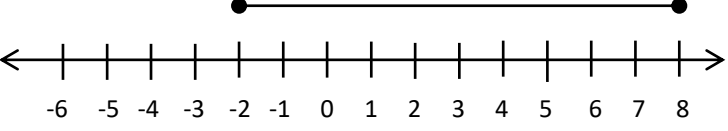
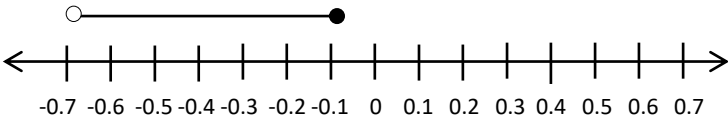
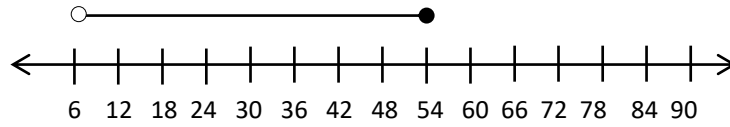


### Inequalities on a Number Line Mark Scheme

<b>1(a)</b>	$x = -1$	[1]
<b>1(b)</b>	$x > -2$	[1]
<b>1(c)</b>	$x < 3$	[1]
<b>2(a)</b>	$x \geq -5$	[2] 1 mark for greater than or equal. 1 mark for $-5$
<b>2(b)</b>	$x < 7$	[2] 1 mark for less than. (NOT EQUAL). 1 mark for 7
<b>2(c)</b>	$x \leq -1$	[2] 1 mark for less than or equal. 1 mark for $-1$
<b>3(a)</b>	$-6 \leq x \leq 6$	[2] 1 mark for correct inequality. 1 mark for correct numbers.
<b>3(b)</b>	$-1 \leq x < 7$	[2] 1 mark for correct inequality. 1 mark for correct numbers.
<b>3(c)</b>	$-4 < x < 4$	[2] 1 mark for correct inequality. 1 mark for correct numbers.
<b>4(a)</b>		
	Shown above	[2] 1 mark for circle. 1 for number
<b>4(b)</b>		
	Shown above	[2] 1 mark for circle. 1 for number
<b>4(c)</b>		
	Shown above	[2] 1 mark for circle. 1 for number
<b>5</b>		
	Appropriate scale	[1]
	Correct inequality	[1]
<b>6(a)</b>	$b > 6$	[1]
	$b \leq 54$	[1]
	$6 < b \leq 54$	[1] Final answer receives all 3

Turn over ►

6(b)



Shown above

[2] 1 mark for Correct numbers. 1 mark correct inequalities.

END