1 Determine whether 5 is a solution of each inequality. Write **yes** or **no**.

(a) $x > -10$ (1)

(b) $x < 4.9$ (1)

(c) $x > 5$ (1)

(d) $x \geq 5$ (1)

(4 marks)

2 Determine whether -2 is a solution of each inequality.

(a) $y < -2$ (1)

(b) $y < 0$ (1)

(c) $y \leq -2$ (1)

(d) $y > -3$ (1)

(4 marks)

3 Draw a number line for each inequality. Mark the circle open or closed, and draw the arrow.

(a) $x > 3$ (2)

(b) $x < 1$ (2)

(c) $x \geq 2$ (2)

(d) $x \leq -1$ (2)

(8 marks)

4 Write down the inequality shown by each description.

(a) An open circle at 6 with an arrow to the right (1)

(b) A closed circle at 4 with an arrow to the left (1)

(c) A closed circle at -3 with an arrow to the right (1)

(d) An open circle at 0 with an arrow to the left (1)

(4 marks)

5 For each inequality, write down three numbers that are solutions and one number that is not.

(a) $x > 7$ (2)

(b) $x \leq 0$ (2)

(4 marks)