GCSE (1 – 9)

Inequalities Regions

Instructions

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.

Information

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end



Write down the three inequalities that define the shaded region

1

(Total for Question 1 is 4 marks)



Write down the three inequalities that define the shaded region

(Total for Question 2 is 4 marks)



(Total for Question 3 is 4 marks)

4 On the grid shade the region that satisfies all these inequalities

 $x < 3 \qquad \qquad y > -2 \qquad \qquad y \le 2x - 1$



(Total for Question 4 is 3 marks)

5 On the grid shade the region that satisfies all these inequalities

$$x + y < 4 \qquad \qquad y > 2x + 1 \qquad \qquad y > -1$$



(Total for Question 5 is 3 marks)

6

x

On the grid shade the region that satisfies all these inequalities

$$y \ge x - 1 \qquad \qquad x \le 6 - 2y \qquad \qquad x \ge -3$$





6



(Total for Question 7 is 2 marks)