Name:

Exam Style Questions



Graphical Inequalities Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Don't spend too long on one question.
- 3. Attempt every question.
- 4. Check your answers seem right.
- 5. Always show your workings

Revision for this topic

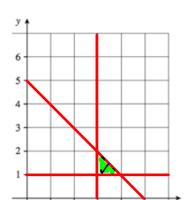
www.corbettmaths.com/contents

Video 180 Video 181 Video 182



1. On the grid, clearly indicate the region that satisfies all these inequalities.

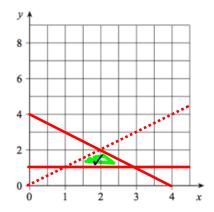
x + y ≤ 5



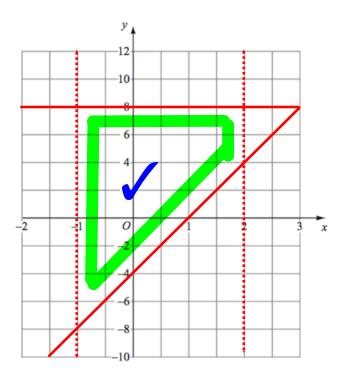
(3)

2. On the grid, clearly indicate the region that satisfies all these inequalities.

$$y < x$$
 $y \ge 1$ $x + y \le 4$



(3)



On the grid, label the region that satisfies all three of these inequalities

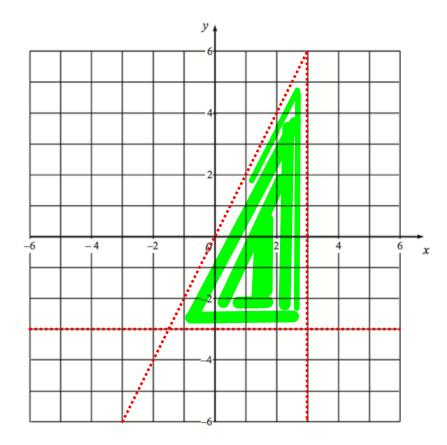
$$-1 < x < 2$$

$$y \ge 4x - 4$$

(4)

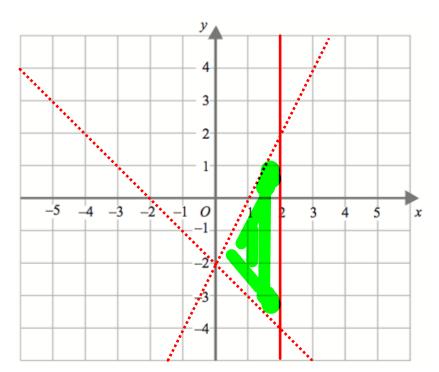
4. On the grid, label the region that satisfies all three of these inequalities



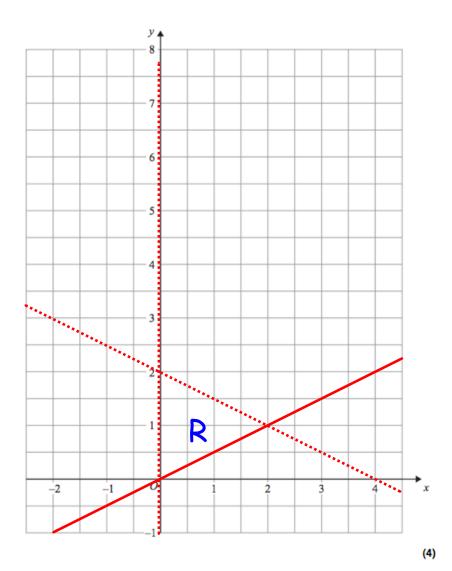


$$y < 2x - 2$$

$$x + y + 2 > 0$$



$$x + 2y < 4$$



7. A greengrocer sells bananas and apples.

In one day he sells

up to 80 bananas

up to 90 apples

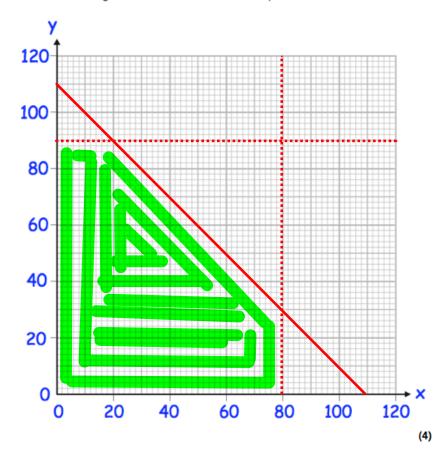
no more than a total of 110 pieces of fruit

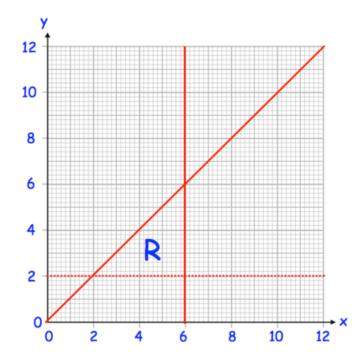
y < 90 × + y ≤ 110

x < 80

Let x be the number of bananas sold Let y be the number of apples sold.

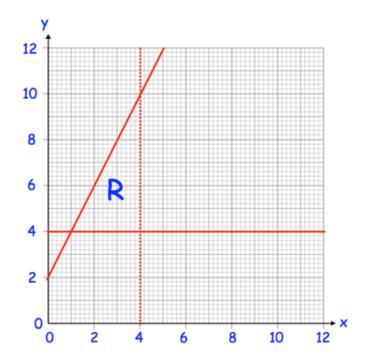
Show the region below that satisfies these inequalities





The region labelled R satisfies three inequalities.

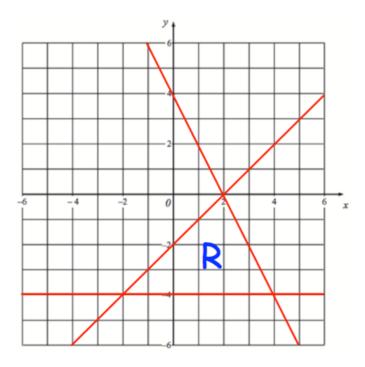
State the three inequalities



The region labelled R satisfies three inequalities.

State the three inequalities

$$\begin{array}{c} x < 4 \\ y \ge 4 \\ y \le 2x + 2 \end{array}$$



The region labelled R satisfies three inequalities.

State the three inequalities

$$y \ge -4$$

$$y \le x - 2$$

$$y \le -2x + 4$$
(3)