

Name - _____

Start time - __: __

End time - __: __

Solve the following inequalities.

In Questions 1-4, draw a graph and use shading to show the region R that satisfies the inequalities.

Q1.

- a) $x > 1$ and $y \leq 2$
- b) $x \leq 4$ and $y \leq 3$
- c) $x \geq 0$ and $y > 1$

Q2.

- a) $1 < x < 4$
- b) $-2 < x \leq 1$
- c) $-4 < y < 2$

Q3

- a) $-2 < x < 0$ and $y > 1$
- b) $2 < x < 6$ and $y \leq 5$
- c) $x \geq 0$ and $-6 < y < -2$
- d) $x < -1$ and $-1 \leq y \leq 4$

Q4

- a) $y > 1$ and $y + x < 4$
- b) $x > -4$ and $y \geq x + 3$
- c) $x \leq 4$ and $y \leq 3$
- d) $1 < x < 4$ and $2 < y < 5$
- e) $x < 2$ and $x + y \geq 1$
- f) $y \geq 0$ and $x < 6 - y$
- g) $x \geq -1$, $y < 4$ and $y < x + 3$
- h) $y < 2x - 4$, $y > x - 4$ and $x + y \leq 8$

