

11/2 Practice 3.3

Assume that x and y are whole numbers. What is the solution of the system of inequalities?

$$\begin{cases} x + y \geq 5 \quad \checkmark \\ 2x + 3y \leq 15 \quad \checkmark \end{cases}$$

$$\begin{array}{ll} 0+4 \geq 5 & 0+5 \geq 5 \\ 4 \geq 5 & 5 \geq 5 \\ F & T \end{array}$$

Make a table of values which satisfy the second inequality.

$$\begin{aligned} 2x + 3y &\leq 15 \\ 3y &\leq 15 \end{aligned}$$

$$\begin{aligned} 4 + 3y &\leq 15 \\ 3y &\leq 11 \end{aligned}$$

$$\begin{aligned} 8 + 3y &\leq 15 \\ 3y &\leq 7 \end{aligned}$$

$$\begin{aligned} 12 + 3y &\leq 15 \\ 3y &\leq 3 \end{aligned}$$

$$\begin{aligned} \frac{2}{-2} + 3y &\leq \frac{15}{-2} \\ 3y &\leq 13 \end{aligned}$$

$$\begin{aligned} 6 + 3y &\leq 15 \\ 3y &\leq 9 \end{aligned}$$

$$\begin{aligned} 10 + 3y &\leq 15 \\ 3y &\leq 5 \end{aligned}$$

$$\begin{aligned} 14 + 3y &\leq 15 \\ 3y &\leq 1 \end{aligned}$$

x	y
0	0, 1, 2, 3, 4, 5
1	0, 1, 2, 3, 4
2	0, 1, 2, 3
3	0, 1, 2, 3
4	0, 1, 2
5	0, 1
6	0, 1
7	0

