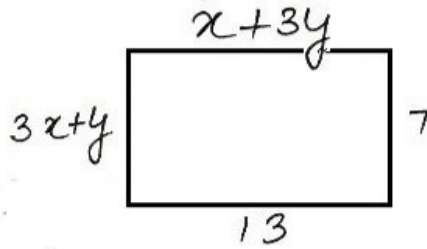


8



opposite sides of a rect. are equal

$$\therefore 3x + y = 7 \dots \textcircled{i}$$

$$x + 3y = 13 \dots \textcircled{ii}$$

$$\textcircled{i} - \textcircled{ii} \times 3$$

$$3x + y = 7$$

$$3x + 9y = 39$$

$$\hline -8y = -32$$

$$\Rightarrow y = \frac{-32}{-8}$$

$$= 4$$

Sub in eqn \textcircled{i}

$$3x + 4 = 7$$

$$\Rightarrow 3x = 7 - 4$$

$$\Rightarrow 3x = 3$$

$$\Rightarrow x = \frac{3}{3}$$

$$\Rightarrow x = 1$$

$$\therefore x = 1, y = 4$$

9 $x + y = 3.3 \dots \textcircled{i}$

$$\frac{0.6}{3x - 2y} = -1$$

$$\Rightarrow 3x - 2y = -0.6 \dots \textcircled{ii}$$

$$\textcircled{i} \times 2 + \textcircled{ii} \times 1$$

$$2x + 2y = 6.6$$

$$3x - 2y = -0.6$$

$$\hline 5x = 6$$

$$\Rightarrow x = \frac{6}{5}$$

$$= 1.2$$

Sub \textcircled{i}

$$\frac{6}{5} + y = 3.3$$

$$y = 3.3 - 1.2$$

$$= 2.1$$

$$\therefore x = 1.2, y = 2.1$$