

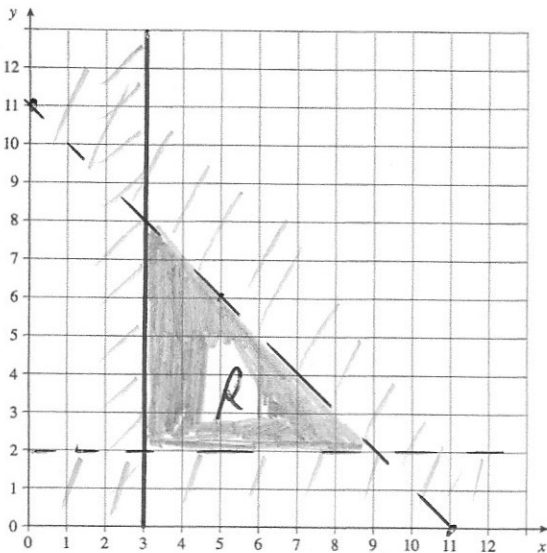


Mylo attends an afterschool club on Monday, Tuesday and Wednesday.

There are 5 possible clubs on Monday  
7 possible clubs on a Tuesday and  
4 possible clubs on a Wednesday

How many different possible combinations are there?

$$5 \times 7 \times 4 = 140$$



Show the region which satisfies

$$x + y < 11$$

$$x \geq 3$$

$$y > 2$$

Work out  $(9.5 \times 10^6)^{-3}$

Give your answer correct to 2 significant figures

P O L Y G O N

There are seven tiles in a bag, each with a letter written on it.

A tile is selected at random, it is **replaced** and then another tile is selected.

$$\frac{1}{7} \times \frac{1}{7} = \frac{1}{49} \quad \frac{2}{7} \times \frac{2}{7} = \frac{4}{49}$$

Find the probability that both tiles have the same letter on it.

$$P\left(\frac{1}{49}\right) \quad O\left(\frac{4}{49}\right) \quad L\left(\frac{1}{49}\right)$$

$$Y\left(\frac{1}{49}\right) \quad G\left(\frac{1}{49}\right) \quad N\left(\frac{1}{49}\right)$$

$$\frac{9}{49}$$

Solve the equation  $x^2 + 5x - 1 = 0$

Give your answers to one decimal place.

$$a=1 \quad b=5 \quad c=-1$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-5 \pm \sqrt{25 - (-4)}}{2}$$

$$x = \frac{-5 \pm \sqrt{29}}{2}$$

$$x = 0.2 \quad \text{or} \quad x = -5.2$$