



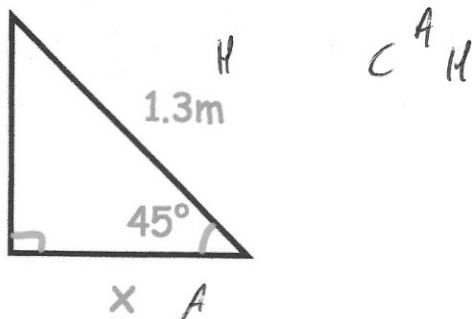
The population of the United Kingdom in 1950 was 5.06×10^7

The population of the United Kingdom in 2018 was 6.67×10^7

Work out how many more people live in the United Kingdom in 2018 than 1950.

$$\begin{array}{r} 66700000 \\ \text{sub } 50600000 \\ \hline 16100000 \end{array}$$

1.61×10^7



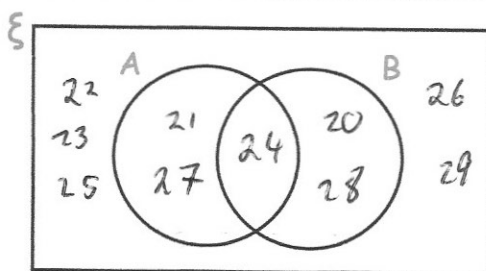
Find x

$$\cos(45) \times 1.3$$

$$0.919m$$

Luis buys 200 pieces of stationery for £76.
Of the 200 pieces of stationery, x of them are rulers that cost 50p each and y of them are pens that cost 20p each.
Find how many rulers Luis buys and how many pens he buys.

$$\begin{aligned} x + y &= 200 \quad \text{--- (1)} \\ 0.5x + 0.2y &= 76 \quad \times 2 \\ x + 0.4y &= 152 \quad \text{--- (2)} \\ \text{(1) - (2)} \quad 0.6y &= 48 \\ y &= 80 \quad x = 120 \end{aligned}$$



$\xi = \{20, 21, 22, 23, 24, 25, 26, 27, 28, 29\}$

A = Multiples of 3 21 24 27
B = Multiples of 4 20 24 28

Complete the Venn diagram

A number is chosen at random

Find $P(A \cup B)$

$$\frac{5}{10} = \frac{1}{2}$$

A number is chosen at random

Find $P(A \cap B)$

$$\frac{1}{10}$$