

14th September



Corbettmaths

Calculate the area

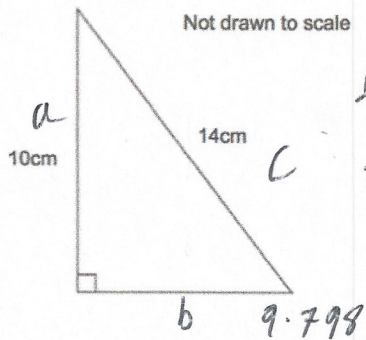
$$a^2 + b^2 = c^2$$

$$10^2 + b^2 = 14^2$$

$$100 + b^2 = 196$$

$$b^2 = 96$$

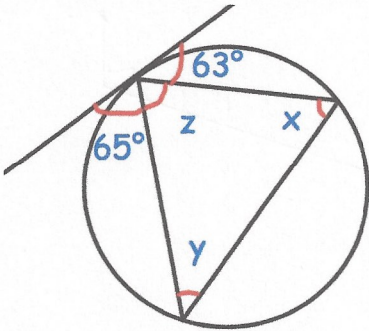
$$b = 9.798$$



$$\frac{1}{2}bh$$

$$\frac{1}{2} \times 9.798 \times 10$$

$$= 48.99 \text{ cm}^2$$



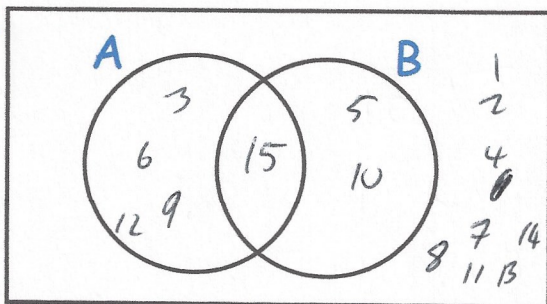
Find x, y and z

$$x = 65^\circ$$

$$y = 63^\circ$$

$$z = 52^\circ$$

ξ



Complete the Venn diagram

$$\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\}$$

A = multiples of 3

B = multiples of 5

One of the numbers is selected at random.

Write down $P(A \cup B)$

$$\frac{7}{15}$$

ABC is a straight line.

A has coordinates (1, -3)

C has coordinates (13, 6)

AB:BC is 2:1

Find the coordinates of point B

$$(9, 3)$$