Find  $x$ 

$$\sin x = \frac{12}{15}$$

$$x = 53.13^\circ$$

$$x \text{ is } \frac{3}{5} \text{ of } y \quad x = \frac{3}{5}y \quad 5x = 3y$$

$$x \text{ is } \frac{2}{3} \text{ of } z \quad x = \frac{2}{3}z \quad 3x = 2z$$

Write down the ratio of  $x : y : z$ 

$$x : y = 3 : 5$$

$$x : z = 2 : 3$$

$$x \quad y \quad z$$

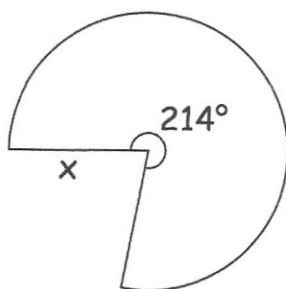
$$6 : 10 : 9$$

Solve  $x^2 + x = 12$ 

$$x^2 + x - 12 = 0$$

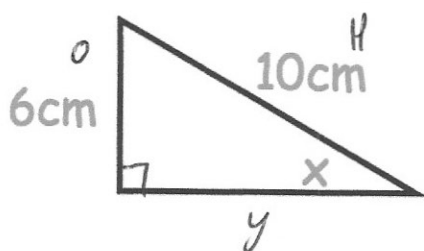
$$(x+4)(x-3) = 0$$

$$x = -4 \text{ or } x = 3$$

The area of the sector is  $3\text{m}^2$ .  
Find  $x$ .

$$\frac{214}{360} \times \pi \times x^2 = 3$$

$$x = 1.267\text{m}$$



Shown is a right angled triangle.

Find the size of  $\cos x$ 

$$6^2 + y^2 = 10^2$$

$$y = 8$$

$$\cos x = \frac{8}{10} = \frac{4}{5}$$