

5th June



Corbettmaths

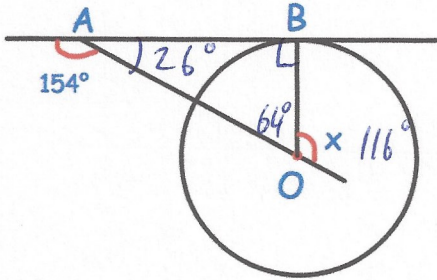
Make  $m$  the subject of

$$9m + 4c = 2(a + 3m)$$

$$9m + 4c = 2a + 6m$$

$$3m = 2a - 4c$$

$$m = \frac{2a - 4c}{3}$$



Find  $x$

$$116^\circ$$

Object A has a density 8 times that of object B.  
The volume of object A is twice the volume of object B.

The mass of object A is 16 times the mass of object B

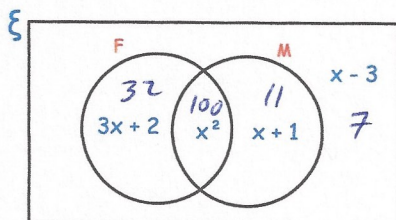
Expand and simplify

$$(x + 2)(2x - y)^2$$

$$(x+2)(2x-y)(2x-y)$$

$$(x+2)(4x^2 - 4xy + y^2)$$

$$4x^3 - 4x^2y + xy^2 + 8x^2 - 8xy + 2y^2$$



$\xi = 150$  stamps in a collection

F = French stamps

M = Modern stamps

Find how many Modern French there are in the collection.

$$x^2 + 3x + 2 + x + 1 + x - 3 = 150$$

$$x^2 + 5x - 150 = 0$$

$$(x-10)(x+15) = 0$$

$$x = 10 \text{ or } x = -15$$

$$100$$