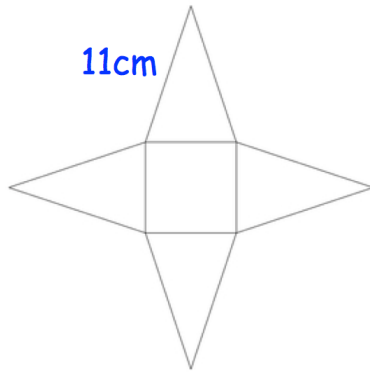


**25th October**

Corbettmaths

$$c : d : e = 9 : 7 : 2$$

Work out  $2c + e : 2d$   
in its simplest form.



Shown is the net of a square based pyramid.

The area of the base is  $64\text{cm}^2$

Calculate the surface area of the pyramid

Calculate the volume of the pyramid

$$f(x) = x^2 + 2x + 1$$

Show that  $f(x + 2) - f(x) = 4x + 8$

One solution of a quadratic equation in the form  
 $y = ax^2 + bx + c$

is

$$x = \frac{3 + \sqrt{65}}{4}$$

Find possible values of a, b and c.