

**26th July**

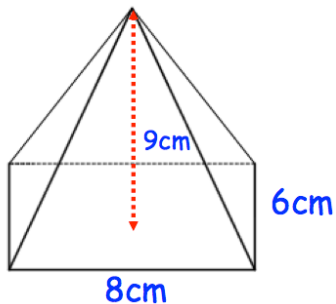
Corbettmaths

Factorise  $x^2 - 7x + 12$ 

The ratio of teachers to children needed on a school trip is 1:7

81 children want to go on the trip.

What is the smallest number of teachers needed?



Calculate the volume of the pyramid.

Solve  $y^2 - 7y - 18 = 0$

A radioactive substance decays over time.  
Every year its mass decreases by 14%.

How many years will it take for 500kg of the substance to decay to a mass less than 200kg?