

8th June



Corbettmaths

The equation of a circle is
 $x^2 + y^2 = 16$

Find the circumference of the circle.
 Give your answer to 1 decimal place.

Work out an expression for the n th term
 of this quadratic sequence

3 14 31 54 ...

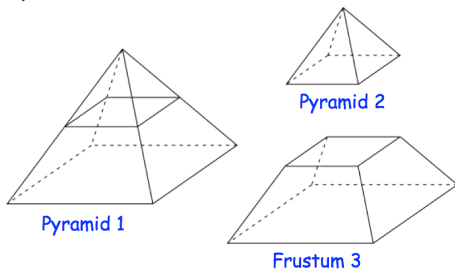
Give your answer in the form
 $an^2 + bn + c$



3 coins are picked at random without
 replacement.

Work out the probability that exactly
 60p is chosen.

A solid square based pyramid 1 is
 divided into two parts:
 a square based pyramid 2 and a frustum
 3, as shown.



Pyramid 1 has a base of side length
 8cm. Pyramid 2 has a base of side
 length 2cm. The perpendicular height of
 pyramid 1 is 10cm.
 Frustum 3 is made from a material with
 a density of 4.2g/cm^3

Work out the mass of the frustum.