

12th April



Corbettmaths

$$f(x) = (x + 5)(x + 3a)$$

Find a

Given

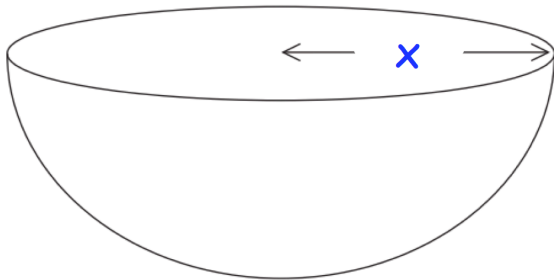
$$f(0) = 18$$

Two consecutive integers are multiplied together.  
The result is added to the largest of the two integers.

Prove the answer is a square number

A is directly proportional to the cube root of B.

Find the percentage increase in A if B is increased by 30%.



A solid glass paperweight has a mass of 500 grams.

The glass has a density of  $3.5\text{g/cm}^3$

Find x