



The cost,  $C$  pounds, of hiring a plumber is  $C = 40h + 15$ , where  $h$  is the number of hours.

Rearrange the formula to make  $h$  the subject.

Use your formula to find how many hours a plumber was hired for if the final cost is £315

Expand

$$(9 - 2x)(8 - x)$$

When a ball is dropped, it bounces and then rises.  
The ball rises to 90% of the height from which it is dropped.  
The ball is dropped from a height of 5m.



Calculate the height of the rise after the first bounce.

The ball carries on bouncing, each time rising to 90% of the last rise.

For how many bounces does it rise to a height greater than 1m?