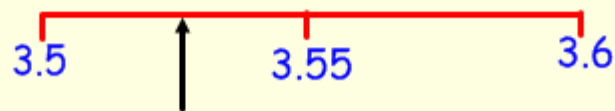


# Trial and Improvement

Use trial and improvement to solve  $x^3 + 2x = 51$   
(give answer to 1dp)

Draw a grid to clearly display your working:

$x$	$x^3 + 2x$	Comment
3	$(3)^3 + 2(3) = 33$	Too Low
3.5	$(3.5)^3 + 2(3.5) = 49.875$	Too Low
3.6	$(3.6)^3 + 2(3.6) = 53.856$	Too High
3.55	$(3.55)^3 + 2(3.55) = 51.8389$	Too High



The answer is between 3.5 and 3.55 so to 1dp it is 3.5