



Air maths tuition

Interact, engage and perform

Arithmetic Sequences

| Past Paper Question | C1 Edexcel June 2014 Q8a

In the year 2000 a shop sold 150 computers. Each year the shop sold 10 more computers than the year before, so that the shop sold 160 computers in 2001, 170 computers in 2002, and so on forming an arithmetic sequence.

(a) Show that the shop sold 220 computers in 2007. (2)

2000, 2001, 2002, , 2007

150, 160, 170, , 8th term

$a = 150$ $d = 10$

$n^{\text{th}} \text{ term} = a + (n-1)d$

when $n = 8$.

\therefore N^o of computers sold in 2007 = $150 + (8-1)10 = 220$

2001, 2002, 2007

160, 170 ? 7th term

when $n = 7$

sold in 2007 = $160 + (7-1)10 = 220$

With the acknowledgement of [Exam Solutions](#).
Find lots more revision sheets on [Air Maths Tuition](#).
[This Video](#)



Exam Solutions
m a t h s m a d e e a s y