Multiplying By 1111

   A. Multiplying by 1111 is very similar to <u>multiplying by 111</u> except you will be
      adding 4 digits at a time instead of 3. See the examples below for an
      illustration:

   Ex [1] 3414 x 1111 =

   a) Write down 4.

   $$3\ 4\ 1\ 4 \quad 4$$

   b) 4 + 1 = 5. Write down 5.

   $$3\ 4\ 1\ 4 \quad 5$$

   c) 4 + 1 + 4 = 9. Write down 9.

   $$3\ 4\ 1\ 4 \quad 9$$

   d) 4 + 1 + 4 + 3 = 12. Write down 2, carry *1.

   $$3\ 4\ 1\ 4 \quad 12$$

   e) 1 + 4 + 3 = 8 + *1 = 9. Write down 9.

   $$3\ 4\ 1\ 4 \quad 8 + *1$$

   f) 4 + 3 = 7. Write down 7.

   $$3\ 4\ 1\ 4 \quad 7$$

   g) Write down 3.

   $$3\ 4\ 1\ 4 \quad 3$$

   h) The answer is 3792954.

Ex [2] 124 x 1111 = _____.

    a) First, since we have to add 4 digits at least once you should treat this number as 0124.

    b) Write down 4.

    c) $4 + 2 = 6$. Write down 6.

    d) $4 + 2 + 1 = 7$. Write down 7.

    e) $4 + 2 + 1 + 0 = 7$. Write down 7.

    f) $2 + 1 = 3$. Write down 3.

    g) Write down 1.

    h) The answer is 137764.