**GCSE Higher tier**

**Past exam questions on indices and decimal arithmetic**

**1**. Using the information that 97 x 123 = 11931, write down the value of

a) 9.7 x 12.3 b) 0.97 x 123000 c) 11.931 ÷ 9.7 **(3 – jun 03)**

**2**. Simplify fully: (i)  (ii)  (iii) **(3 – jun 03)**

**3.** Work out (i) 4º (ii)  (iii)  (iv)  **(4 – jun 03)**

**4.** 1.54 x 450 = 693. Use this result to write down the answer to:

a) 1.54 x 45 b) 1.54 x 4.5 c) 0.154 x 0.45 d) 693 ÷ 45 **(4 – jun 02)**

**5.** a) Simplify (i) . (ii)  (iii) 

b) Find the value of (i)  (ii)  (iii) 

c)\* The number 1104 can be written as , where c is a whole number and d is a prime number.

Work out the value of c and d. **(8 – jun 02)**

**6.** Simplify: a) b)  c)  **(6 – jun 02)**

**7.** Evaluate: a)  b)  c)  **(3 – jun 01)**

**8.** Simplify . **(2 – jun 01)**

**9\*.** Find the value of m when  **(2 – jun 01)**

**10\*.** a) Simplify 

b) The number *x* lies between 0 and 1. Write the following expressions in order of size. Put the smallest one first. . **(3 – jun 00)**

**TOTAL = 38 marks**