1 Here is a list of five numbers.

$$98^{53} \qquad 98^{64} \qquad 98^{73} \qquad 98^{88} \qquad 98^{91}$$

Find the lowest common multiple of these five numbers.

....

(Total for Question 1 is 1 mark)

2 Write 124 as a product of its prime factors.

....

(Total for Question 2 is 2 marks)

3   Write 500 as a product of powers of its prime factors.

....

(Total for Question 3 is 3 marks)

4 Two numbers *m* and *n* are such that
    m is a multiple of 5
    n is an even number
    the highest common factor (HCF) of *m* and *n* is 7

Write down a possible value for *m* and a possible value for *n*.

m = ...

n = ...

(Total for Question 4 is 2 marks)

5 Write 60 as a product of its prime factors.

....

(Total for Question 5 is 2 marks)

6 *A* and *B* are numbers such that

$$A = 2^2 \times 3^4 \times 7$$
$$B = 3^2 \times 7^2$$

(a) Find the highest common factor (HCF) of *A* and *B*.

....
(1)

(b) Find the lowest common multiple (LCM) of *A* and *B*.

....
(2)

(Total for Question 6 is 3 marks)