1. Write 140 as the product of its prime factors.

(2 marks)

2. Write 720 as a product of its prime factors.

(2 marks)

3. (a) Express the following numbers as products of their prime factors.

   (i) 60,

   (ii) 96. **(4)**

   (b) Find the Highest Common Factor of 60 and 96. **(1)**

   (c) Work out the Lowest Common Multiple of 60 and 96. **(2)**

(7 marks)

4. (a) Express 120 as the product of powers of its prime factors. **(3)**

   (b) Find the Lowest Common Multiple of 120 and 150. **(2)**

(5 marks)

5. (a) Express 108 as the product of powers of its prime factors. **(3)**

   (b) Find the Highest Common Factor (HCF) of 108 and 24 **(1)**

(4 marks)

6. (a) Work out the Highest Common Factor (HCF) of 24 and 64 **(2)**

   (b) Work out the Lowest Common Multiple (LCM) of 24 and 64 **(2)**

(4 marks)

7. (a) Find the Highest Common Factor of 75 and 90. **(2)**

   (b) Find the Lowest Common Multiple of 75 and 90. **(2)**

(5 marks)

8. (a) Express 84 as a product of its prime factors. **(3)**

   (b) Find the Highest Common Factor (HCF) of 84 and 35 **(2)**

(5 marks)

9. (a) Express 56 as the product of its prime factors. **(2)**

   (b) Find the Lowest Common Multiple of 56 and 98 **(2)**

(4 marks)

10. Find the Highest Common Factor (HCF) of 84 and 180

(3 marks)

11. Find the Highest Common Factor (HCF) of 32 and 80

(3 marks)

12. (a) Find the Lowest Common Multiple (LCM) of 24 and 36 **(2)**

James thinks of two numbers.
He says

"The Highest Common Factor (HCF) of my two numbers is 3
The Lowest Common Multiple (LCM) of my two numbers is 45"

   (b) Write down two numbers that James could be thinking of. **(3)**

(5 marks)

| Grade 4 | HCF, LCM | 4.03 |