

Maths Questions on Prime Factors, LCM and HCF Homework

- List the factor pairs of 96.
- Express the following numbers as a product of their prime factors
a. 24 b. 60 c. 55 d. 80 e. 144
- Find the lowest common multiple of the following pairs of numbers.
a. 36 and 50 b. 12 and 16 c. 20 and 45
- Find the highest common factors of the following pairs of numbers.
a. 24 and 38 b. 50 and 65 c. 18 and 198
- The product of the prime factors of two numbers, A and B are as follows:

$$A = 3^3 \times 5^2 \times 11^2$$

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

What is $\text{lcm}(A,B) - \text{hcf}(A,B)$?

- A group of numbers is shown below. Match each number in the group to the correct description of that number.

2

A perfect number

6

A cube number

7

A square number

24

A multiple of 2,3,4

100

An even prime number

216

A prime number > 2