Number Theory 2: Prime Factorisation

Example 1

Write 420 as a product of its prime factors

Question 1

Write each of the following numbers as a product of their prime factors:

1. 375375
2. 286
3. 1215

Example 2

Find the Prime factors of 297675 and 7425

Hence, Find:

1. The highest common factor (HCF) of these two numbers
2. The lowest common multiple (LCM) of these two numbers

Question 2

Find the prime factors of each of the pairs of numbers

Hence, Find the HCF and LCM of each pair of numbers.

1. 13,860 and 3.276
2. 255,255 and 2.431