

Day 4 HCF and LCM

1. It is known that $A = 2^3 \times 3^3 \times 5$, $B = 2 \times 3^4 \times 5^2$, $C = 3^2 \times 5^3 \times 7$. Find the highest common factor and the least common multiple of each of the following sets of numbers, with the results expressed in the form of decomposed prime factors.

(1) A, B; (2) A, C

2. (RIPMWC2017-19) Consider the three numbers 2017, 2758 and 3670, When they are divided by a number A the remainder is the same for each of the three numbers. What is the sum of the values of A ?

3. The number A is 36, and the highest common factor of the numbers A and B is 4. The least common multiple is 288, so what is the number B ?