Prime Factors HCF LCM

2, 3, 5, 7, 11

Write 72 as product of prime factors

$$\begin{array}{r|l} 2 & 72 \\ 2 & 36 \\ 2 & 18 \\ 3 & 9 \\ 3 & 3 \\ & 1 \end{array}$$

$$72 = 2 \times 2 \times 2 \times 3 \times 3$$

$$= 2^3 \times 3^2$$

Write 54 as a product of prime factors

$$\begin{array}{r|l} 2 & 54 \\ 3 & 27 \\ 3 & 9 \\ 3 & 3 \\ & 1 \end{array}$$

$$54 = 2 \times 3 \times 3 \times 3$$

$$= 2 \times 3^3$$

Find HCF of 54 and 72

$$54 = (2) \times (3) \times (3) \times 3$$

$$72 = (2) \times 2 \times 2 \times (3) \times (3)$$

$$HCF = 2 \times 3 \times 3 = 18$$

Find Lcm of 54 and 72

Factors of 72 | Extra factor for 54

$= 2 \times 2 \times 2 \times 3 \times 3 \times 3$

$= 216$

$72 \times 3 = 216$

In calculator exam to find LCM you could write out multiplication tables

54 108 162 (216) 270

72 144 (216)
