Prime Factors and Related Topics

1) List **all** the factors of: (a) 18 (b) 30

2) 1 27 36 53 84 91 96
Of the above numbers, which one(s) is/are:
(a) a multiple of 12 (b) a prime number (c) a square number
(d) a factor of 72 (e) not a multiple of 3 (f) a multiple of 7

3) Write each of the following as the product of prime factors:
(a) 18 (b) 45 (c) 48 (d) 70 (e) 120 (f) 126

4) Find the HCF of: (a) 18 and 45 (b) 120 and 48 (c) 70 and 126
5) Find the LCM of:(a) 18 and 45 (b) 120 and 48 (c) 70 and 126

6) Write as a product of prime factors, giving your answer in index form:
(a) 440 (b) 924 (c) 1890
Hence find:
(d) the HCF of 440 and 924 (e) the HCF of 924 and 1890
(f) the LCM of 440 and 924 (g) the LCM of 924 and 1890

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