CUBES AND CUBE ROOTS

CUBE ROOT THROUGH PRIME FACTORISATION METHOD

EXERCISE

Q.1 Find cube root by prime factorisation

(i) 4913   (ii) 13824

(iii) 175616   (iv) 456533

Q.2 Find the least number by which when multiply the following numbers, such that the number become perfect cube.

(i) 2048   (ii) 1029

(iii) 45   (iv) 5832

Q.3 Find the least number by which when divide the following numbers. The number become perfect cube also find cube root of new number

(i) 4394   (ii) 8575

(iii) 7986   (iv) 28672

ANSWER KEY

1.   (i) 17   (ii)24;

(iii) 56   (iv) 77

2.   (i) 2   (ii) 9

(iii) 75   (iv) 1

3.   (i) 2, 13   (ii) 25, 7

(iii) 6, 11   (iv) 7, 16