

Class-VIII  
Subject: Maths  
Assignment

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Answer the following questions:

Q 1) Is 53240 a perfect cube? If not then by which smallest natural number should 53240 be divided so that the quotient is a perfect cube?

Q 2) Is 68600 a perfect cube? If not, find the smallest number by which 68600 must be multiplied to get a perfect cube?

Q 3) Find the smallest number by which each of the following numbers must be multiplied to obtain a perfect cube.

i) 256

ii) 675

Q 4) Find the smallest number by which each of the following numbers must be divided to obtain a perfect cube.

i) 135

ii) 192

Q 5) Find the cube root of 8000.

Q 6) Find the cube root of 13824 by prime factorization method.

Q 7) Solve the following by vedic maths:

i)  $(3x^2 - 4x + 2) \times (2x^2 + 2x - 1)$

ii)  $(2x^2 - 5x + 4) \times (2x^2 + 3x - 3)$

iii)  $(4x^2 + 6x + 3) \times (2x^2 + 3x - 4)$