

8 CLASS MATH TUITION ASSIGNMENT

Assignment – 7

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Chapter = Cubes and Cube Roots

Submission Date = 19 September 2021

MM = 20

Q1. Find the smallest number by which each of the following numbers must be divided to obtain a perfect cube.

(i) 81

(ii) 128

Q2. Parikshit makes a cuboid of plasticine of sides 5 cm, 2 cm, 5 cm. How many such cuboids will be needed to form a cube?

Q3. Show that 46656 is a perfect cube.

Q4. Find the smallest number which when multiplied with 3600 will make the product a perfect cube. Further, find the cube root of the product.

Q5. By which smallest number should 648 be multiplied so that the product is a perfect cube?

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Q6. Show that if a number is doubled, then its cube becomes eight times the cube of the given number.

Q7. Show that 0.001728 is a cube root of a rational number.

Q8. Which smallest natural number should divide 1188 so that the quotient is a perfect cube?

Q9. Is 292 a perfect cube? If not find the smallest natural number by which it must be multiplied so that the product is a perfect cube

Q10. Is the cube of 132651 an even number? Why?