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MM 20

Time 45 min

1 Mark Each

1. Find the one's digit of the cube of 3031
2. Without actually finding the cubes find the value of $21^3 - 20^3$
3. Is 32 a perfect cube?
4. Express 13^2 as the sum of two consecutive integers.
5. What will be the unit digit of the square of 3873?
6. Why 2332 is not perfect square ?
7. Cube of any odd number is even. Yes/No Why?

2 Marks Each

8. Find the cube root of 27000.
9. Find the cube root of 17576 through estimation.

3 Marks Each

8. Anubhav makes a cuboid of plasticine of sides 5 cm, 3 cm, 5 cm. How many such cuboids will he need to form a cube?
9. Is 5488 a perfect cube? If not, find the smallest natural number by which 5488 must be multiplied so that the product is a perfect cube
10. Is 5324 a perfect cube? If not, then by which smallest natural number should 5324 be divided so that the quotient is a perfect cube?

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