HW 3/8/21

Cubes and cube roots

Camlin Page
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1→ 331 = 1 is the ones digit and 1 ones cube will be $1^3 = 1$

ii→ 8888 = 8 is the ones digit and 8 eights cube will be $8^3 = 512$

iii→ 149 = 9 is the ones digit and 9 nines cube will be $9^3 = 729$

iv→ 1005 = 5 is the ones digit and 5 fives cube will be $5^3 = 125$

v→ 1024 = 4 is the ones digit and 4 fours cube will be $4^3 = 64$

vi→ 77 = 7 is the ones digit and 7 sevens cube will be $7^3 = 343$

vii) 5022 = 2 is the ones digit and 2 twos cube will be $2^3 = 8$

viii→ 53 = 3 is the ones digit and 3 threes cube will be $3^3 = 27$

2→ a) 6^3 = n x 5 + 1 = 6 x 5 + 1 = 30 + 1 = 31 + 33 + 35 + 37 + 39 + 41 = 216

b→ 8^3 = n x 5 + 1 = 8 x 5 + 1 = 40 + 1 = 41 + 43 + 45 + 47 + 49 + 51 + 53 + 55 = 512

c→ 7^3 = 7 x 5 + 2 = 37 + 39 + 41 + 43 + 45 + 47 + 49 = 343

3→ 400 = No it is not a perfect cube.

2) 33375 = Yes it is a perfect cube of 15

3) 80000 = Yes it is a perfect cube of 20

4) 1525 = NO it is not a perfect cube

5) 9000 = Yes it is a perfect cube of 30.

6) 6859 = NO it is not a perfect cube

7) 392 = 2|392
2|196
2|98
7|49
7

∴ we should multiply 7 to make it a perfect. As we are not getting 7 as pair

8) 53240. We should 5 to make it a perfect square 5 is not becoming with any other so it can become a perfect cube

9) 1188 = The smallest number divided will be 44 to make it it a perfect cube.

10) 68600 = 5 is the number that should be multiplied to make it a perfect cube.