

$$1 \text{ (i)} \quad 216 = 2^3 \times 3^3$$

\therefore all factors are in triplets, it is a perfect cube

$$2 \text{ (ii)} \quad 128 = 2^2 \times 2^3 \times 2$$

\therefore all factors are not in triplets, it is not a perfect cube

$$3 \text{ (iii)} \quad 1000 = 2^3 \times 5^3$$

$$4 \text{ (iv)} \quad 100 = 2^2 \times 5^2$$

\therefore all factors are not in triplets, 100 is not a perfect cube.

$$5 \text{ (v)} \quad 46656 \\ = 2^3 \times 2^3 \times 3^3 \times 3^3$$

\therefore 128 and 100 are not perfect cubes

2	46656
2	23328
2	11664
2	5832
2	2916
2	1458
3	729
3	243
3	81
3	27
3	9
	3