i) a) 1 ii) b) 2 iii) c) 3 iv) 5 v) 8 vi) 7 vii) 8 viii) 3

392

400 is not a perfect cube

3375, 8000, 15625, 9000, 6859 are perfect cubes

2	392
2	196
2	98
7	49
7	7
	1

$= \sqrt{2 \times 2 \times 2 \times 7 \times 7}$

7 was not in a group of three so, 7 should be multiplied to 392 to make it a perfect cube.

2	5324
2	2662
2	1331
11	121
11	11
	1

$= 5 \times \sqrt{2 \times 2 \times 2 \times 11 \times 11 \times 11}$

5 is not in groups of three

5 should be divided from

5324 to make it a perfect

6) We should divide 1188 by 44

7) We should multiply 5 to 68600

3	1188
3	396
3	132

$6^3 = 216$

$\Rightarrow$ odd no $= \frac{n(n+1)}{2} + 1 = \frac{6 \times 7}{2} + 1 = 21^{th}$ odd

21^{th} odd $= 1 + 20 \times 2 = 82$

$8^3 = 512$

$\Rightarrow$ odd no $= \frac{8 \times 9}{2} = 37^{th}$ odd

37^{th} odd $= 1 + 36 \times 2 = 73$

$7^3 = 343$

$\Rightarrow$ odd no $= \frac{7 \times 8}{2} = 28^{th}$ odd

28^{th} odd $= 2 + 27 \times 2 = 56$