(i) Cubes of an even number are 216, 8000, 4096.

(ii) Cubes of an odd number are 729, 3375, 125, 343, 9261

(7) Solution:- The prime factor of 1323 are $= 3\times3\times3\times7\times7 = (3\times3\times3)\times7\times7$
Clearly, 1323 must be multiplied by 7

(8) Sol: The prime factor of 8768 are

2	8768
2	4384
2	2192
2	1096
2	548
2	274
137	137
	1

$= 2\times2\times2\times2\times2\times2\times137$
$= (2\times2\times2)\times(2\times2\times2)\times137$
Clearly, 8768 must be divided by 137

(9) Sol:-

3	27783
3	9261
3	3087
3	1029
7	343
7	49
7	7
	1

$= 3\times3\times3\times3\times7\times7\times7$
$= (3\times3\times3)\times(7\times7\times7)\times3$
Clearly, 27783 must be multiplied by $3\times3 = 9$

(10) Sol:- The prime factors of 8640 are

2	8640
2	4320
2	2160
2	540
2	270
3	135
3	45
3	15
5	5
	1

$= 2\times2\times2\times2\times2\times3\times3\times5$

$= (2\times2\times2)\times(2\times2\times2)\times(3\times3\times5)$

$\times 5$

Clearly, 8640 must be divided by 5

(11) Sol:-

The prime factors of 77175 are

3	77175
3	25725
5	8575
5	1715
7	343
7	49
7	7
	1

$= 3\times3\times5\times5\times7\times7\times7$

$= (7\times7\times7)\times3\times3\times5\times5$

Clearly, 77175 must be multiplied by $3\times5 = 15$