Exercise 4A

The cube of an odd number is an odd number. Therefore, 125, 343 and 9261 are the cubes of odd numbers.

$125 = 5 \times 5 \times 5 = 5^3$

$343 = 7 \times 7 \times 7 = 7^3$

$9261 = 3 \times 3 \times 3 \times 7 \times 7 \times 7 = 3^3 \times 7^3 = 21^3$

Q7

Answer :

1323

3	1323
3	441
3	147
7	49
7	7
	1

$1323 = 3 \times 3 \times 3 \times 7 \times 7.$

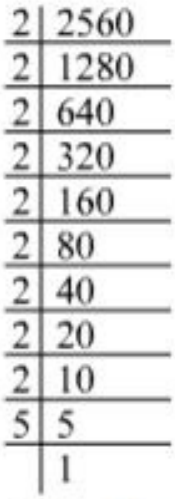
To make it a perfect cube, it has to be multiplied by 7.

Q8

Answer :

2560

2560 can be expressed as the product of prime factors in the following manner:



2	2560
2	1280
2	640
2	320
2	160
2	80
2	40
2	20
2	10
5	5
	1

$$2560 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 5$$

To make this a perfect square, we have to multiply it by 5×5.
Therefore, 2560 should be multiplied by 25 so that the product is a perfect cube.

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