Exercise 4A

the triplets of 3 and 7, i.e. $3^3 \times 7^3 = 21^3$

Therefore, 9261 is a perfect cube.

(vii) 5324 is not a perfect cube.

(viii) 3375 .

Resolving 3375 into prime factors:

$3375 = 3 \times 3 \times 3 \times 5 \times 5 \times 5$.

Here, two triplets are formed, which are 3^3 and 5^3. Hence, 3375 can be expressed as the product of

the triplets of 3 and 5, i.e. $3^3 \times 5^3 = 15^3$.

Therefore, 3375 is a perfect cube.

Q5

Answer :

The cubes of even numbers are always even. Therefore, 216, 512 and 1000 are the cubes of even numbers.

$216 = 2 \times 2 \times 2 \times 3 \times 3 \times 3 = 2^3 \times 3^3 = 6^3$

$512 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 2^3 \times 2^3 \times 2^3 = 8^3$

$1000 = 2 \times 2 \times 2 \times 5 \times 5 \times 5 = 2^3 \times 5^3 = 10^3$

Q6

Answer :

********** END **********