

Mathematics

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(Chapter – 1) (Real Numbers)(Exemplar Problems)
(Class – X)

Exercise 1.2

Question 3:

‘The product of three consecutive positive integers is divisible by 6’. Is this statement true or false? Justify your answer.

Answer 3:

Yes, it is true.

Three consecutive integers can be n , $(n+1)$ and $(n + 2)$.

So, one number of these three must be divisible by 2 and another one must be divisible by 3.

Hence, product of numbers is divisible by 6.

For example:

$2 \times 3 \times 4$ is divisible by 6,

$12 \times 13 \times 14$ is divisible by 6,

$82 \times 83 \times 84$ is divisible by 6 and so on.

