



MATHS

BOOKS - KALYANI MATHS (ASSAMESE ENGLISH)

REAL NUMBERS



1. Every integer can be expressed in the form

of 3p or ($3p\pm 1$)



3. Show that any positive odd interger is of the

form 6q+1,or 6q+3,or 6q+5,where q is some

integer.

4. Prove that the product of two consecutive

positive integers is divisible by 2.

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5. If a and b are two odd positive integers such that a>b. Then prove that one of the two numbers $\frac{a+b}{2}$ and $\frac{a-b}{2}$ is odd and other is even.

1. Applying division algorithm prove that every intiger can de expressed in the following form $(q \in Z, q > 0)$ $4q, (4q \pm 1)$ or $(4q \pm 2)$ Watch Video Solution

2. Applying division algorithm prove that every intiger can de expressed in the following form



 $4q\pm 1$

4. Prove that every odd integer can be expressed in the form of $(q \in Z)$ $4q \pm 1$

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5. If q is a positive integer, square of every

integer can be expressed in the form of 8q+1.

6. Prove that an integer which can be expressed in the form of 6k+5 can be also expressed in the form of 3k-1.



7. Show that cube of any positive integer is either of the form 4q, 4q+1, 4q+3 for $(q \in Z)$



8. Show that any positive even integer is of the

form 6q, 6q+2 ,6q+4.



9. If $(n \in N)$ then applying division algorithm prove that each of the following in an integer $rac{n(3n+1)}{2}$

10. If $(n \in N)$ then applying division algorithm prove that each of the following in an integer $\frac{n(4n^2-1)}{3}$ Watch Video Solution

11. If $(n \in N)$ then applying division algorithm prove that each of the following in an integer $rac{n^3-n}{3}$

12. If $(n \in N)$ then applying division algorithm prove that each of the following in an integer $\frac{n^3 + 3n^2 + 2n}{6}$ Watch Video Solution