

How to Solve: Last Two Digits of Numbers ending with 1

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YouTube Video Link to this Post is [Here](#)

Following is Covered in the Video

Theory of Last Two Digits of Numbers Ending with 1

- Find Last two digits of 131^{345} ?
- Find Last two digits of 781^{984} ?
- Find Last two digits of 15671^{379} ?

Theory of Last Two Digits of Numbers Ending with 1

- Units' digit of the number = 1
- Tens' digit of the number = Tens' digit of the base * Units' digit of the exponent

Q1. Find Last two digits of 131^{345} ?

Sol: Base = 131
Exponent = 345

=> Units' digit = 1
=> Tens' digit = $3 * 5$ [**131 * 345**]
= 5
=> Last two digits = 51

Q2. Find Last two digits of 781^{984} ?

Sol: Base = 781
Exponent = 984

=> Units' digit = 1
=> Tens' digit = $8 * 4$ [**781 * 984**]
= 2
=> Last two digits = 21

Q3. Find Last two digits of 15671^{379} ?

Sol: Base = 15671

Exponent = 379

=> Units' digit = 1

=> Tens' digit = $7 * 9$ [15671 * 379]

= 3

=> Last two digits = 31

[Link to Theory for Units' digit of exponents here.](#)

Hope it helps!