## Course Content VM- 1200 (Upto 12 yrs) Below 12 yrs.

### Note : Above 12 yrs. - Falls in Next Category

- 1. Multiplication by 11 and multiples of 11
- 2. Multiplication by 12 to 19
- 3. Multiplication by 111
- 4. Multiplication by 222 to 999
- 5. Base Method Multiplication
  - (a) Below Base 10
  - (b) Below Base 20-90
  - (c) Below Base 100
  - (d) Below Base 200-900
  - (e) Above Base 10
  - (f) Above Base 20-90
  - (g) Above Base 100
  - (h) Above Base 200-900
  - (I) Base method when one number is above & other is below the same base

जित एव अबने

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- (j) When Bases are different but both numbers are below base
- (k) When Bases are different but both numbers are above base
- 6. If the sum of unit digits is 10 and rest place digits are same
- 7. If the sum of ten's place digit is 10 and one's place digits are same
- 8. Multiplication by 9
- 9. Multiplication of Number Ending with 9 i.e. 19-99
- 10. General Method (2 digit x 2 digit)

## Course Content VM- 1201 (Upto 12 yrs) Below 12 yrs.

#### Note : Above 12 vrs. - Falls in Next Category

- 1. Multiplication by 11 and multiples of 11
- 2. Multiplication by 12 to 19
- 3. Multiplication by 111
- 4. Multiplication by 222 to 999
- 5. Base Method Multiplication
  - (a) Below Base 10
  - (b) Below Base 20-90
  - (c) Below Base 100
  - (d) Below Base 200-900
  - (e) Above Base 10
  - (f) Above Base 20-90
  - (g) Above Base 100
  - (h) Above Base 200-900
  - (I) Base method when one number is above & other is below the same base
  - (j) When Bases are different but both numbers are below base
  - (k) When Bases are different but both numbers are above base
- 6. If the sum of unit digits is 10 and rest place digits are same
- 7. If the sum of ten's place digit is 10 and one's place digits are same
- 8. Multiplication by 9
- 9. Multiplication of Number Ending with 9 i.e. 19-99
- 10. General Method (2 digit x 2 digit)
- 11. Subtraction (all from 9 last from 10)
- 12. Vinculum
- 13. Change unit digit into a vinculum
- of Vedicmath 14. Change all digit to vinculum except first
- 15. Devinculate
- 16. Subtraction using vinculum
- 17. Addition Base Method
- **18.Subtraction Base Method**
- 19. Addition Using Compliments
- 20. Division by 9
- 21. Division by 8
- 22. Division by 11
- 23. Division by 12
- 24. Division by 99
- 25. Division by number above base 100
- 26. Division Base Method (Above Base)
- 27. Division Base Method (Below Base)
- 28. Squares (Base Method)
- 29. Square of number ending with 5
- 30. Square of number starting with 5

# Course Content VM-1300 (Upto 13 yrs) Below 13 yrs.

#### Note : Above 13 vrs. - Falls in Next Category

- Multiplication by 11 and multiples of 11 1.
- Multiplication by 12 to 19 2.
- 3. Multiplication by 111
- 4. Multiplication by 222 to 999
- 5. Base Method Multiplication
  - (a) Below Base 10
  - (b) Below Base 20-90
  - (c) Below Base 100
  - (d) Below Base 200-900
  - (e) Above Base 10
  - (f) Above Base 20-90
  - (g) Above Base 100
  - (h) Above Base 200-900
  - (I) Base method when one number is above & other is below the same base

णित एव

- (j) When Bases are different but both numbers are below base
- (k) When Bases are different but both numbers are above base
- 6. If the sum of unit digits is 10 and rest place digits are same
- If the sum of ten's place digit is 10 and one's place digits are same 7.
- 8. Multiplication by 9
- 9. Multiplication of Number Ending with 9 i.e. 19-99
- 10. General Method (2 digit x 2 digit)
- 11. Subtraction (all from 9 last from 10)
- 12. Vinculum
- 13. Change unit digit into a vinculum
- of Vedicmath 14. Change all digit to vinculum except first
- 15. Devinculate
- 16. Subtraction using vinculum
- 17. Addition Base Method
- 18. Subtraction Base Method
- 19 Addition Using Compliments
- 20 Division by 9
- 21. Division by 8
- 22. Division by 11
- 23. Division by 12
- 24. Division by 99
- 25. Division by number above base 100
- 26. Division Base Method (Above Base)
- 27. Division Base Method (Below Base)
- 28. Squares (Base Method)
- 29. Square of number ending with 5
- 30. Square of number starting with 5

# Course Content VM- 1301 (Upto 13 yrs) Below 13 yrs.

#### Note : Above 13 yrs. - Falls in Next Category

- 1. Multiplication by 11 and multiples of 11
- 2. Multiplication by 12 to 19
- 3. Multiplication by 111
- 4. Multiplication by 222 to 999
- 5. Base Method Multiplication
  - (a) Below Base 10
  - (b) Below Base 20-90
  - (c) Below Base 100
  - (d) Below Base 200-900
  - (e) Above Base 10
  - (f) Above Base 20-90
  - (g) Above Base 100
  - (h) Above Base 200-900
  - (I) Base method when one number is above & other is below the same base

णत एव अब्बे

- (j) When Bases are different but both numbers are below base
- (k) When Bases are different but both numbers are above base
- 6. If the sum of unit digits is 10 and rest place digits are same
- 7. If the sum of ten's place digit is 10 and one's place digits are same
- 8. Multiplication by 9
- 9. Multiplication of Number Ending with 9 i.e. 19-99
- 10. General Method (2 digit x 2 digit)
- 11. Subtraction (all from 9 last from 10)
- 12. Vinculum
- 13. Change unit digit into a vinculum
- 14. Change all digit to vinculum except first
- 15. Devinculate
- 16. Subtraction using vinculum
- 17. Addition Base Method
- 18. Subtraction Base Method
- 19 Addition Using Compliments
- 20 Division by 9
- 21. Division by 8
- 22. Division by 11

## Course Content VM- 1301 (Upto 13 yrs) Below 13 yrs.

- 23. Division by 12
- 24. Division by 99
- 25. Division by number above base 100
- 26. Division Base Method (Above Base)
- 27. Division Base Method (Below Base)
- 28. Squares (Base Method)
- 29. Square of number ending with 5
- 30. Square of number starting with 5
- 31. Tables Using Vinculum
- 32. Multiplication by number of 9's
  - a) Multiplier has equal of 9's as multiplicand digits
  - b) Multiplier has less number of 9's as compared to digits of multiplicand
  - c) Multiplier has more number of 9's as compared to digits of multiplicand.

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- 33. Multiplication General Method
  - a) 2 D x 2 D
  - b) 3 D x 3 D
  - c) 3 D x 2 D
  - d) 4 D x 4 D
  - e) 4 D x 3 D
  - f) 4 D x 2 D

## Course Content VM- 1302 (Upto 13 yrs) Below 13 yrs.

#### Note : Above 13 yrs. - Falls in Next Category

- Multiplication by 11 and multiples of 11 1.
- 2. Multiplication by 12 to 19
- 3. Multiplication by 111
- 4. Multiplication by 222 to 999
- 5. Base Method Multiplication
  - (a) Below Base 10
  - (b) Below Base 20-90
  - (c) Below Base 100
  - (d) Below Base 200-900
  - (e) Above Base 10
  - (f) Above Base 20-90
  - (g) Above Base 100
  - (h) Above Base 200-900
  - (I) Base method when one number is above & other is below the same base

जिंगत एव अब्बे

- (j) When Bases are different but both numbers are below base
- (k) When Bases are different but both numbers are above base
- 6. If the sum of unit digits is 10 and rest place digits are same
- 7. If the sum of ten's place digit is 10 and one's place digits are same
- 8. Multiplication by 9
- 9. Multiplication of Number Ending with 9 i.e. 19-99
- 10. General Method (2 digit x 2 digit)
- 11. Subtraction ( all from 9 last from 10) Venicia
- 12. Vinculum
- 13. Change unit digit into a vinculum
- 14. Change all digit to vinculum except first
- 15. Devinculate
- 16. Subtraction using vinculum
- 17. Addition Base Method
- 18. Subtraction Base Method
- 19 Addition Using Compliments
- 20 Division by 9
- 21. Division by 8
- 22. Division by 11

## Course Content VM- 1302 (Upto 13 yrs) Below 13 yrs.

- 23. Division by 12
- 24. Division by 99
- 25. Division by number above base 100
- 26. Division Base Method (Above Base)
- 27. Division Base Method (Below Base)
- 28. Squares (Base Method)
- 29. Square of number ending with 5
- 30. Square of number starting with 5
- 31. Tables Using Vinculum
- 32. Multiplication by number of 9's
  - a) Multiplier has equal of 9's as multiplicand digits
  - b) Multiplier has less number of 9's as compared to digits of multiplicand
  - c) Multiplier has more number of 9's as compared to digits of multiplicand.
- 33. Multiplication General Method
  - a) 2 D x 2 D
  - b) 3 D x 3 D
  - c) 3 D x 2 D
  - d) 4 D x 4 D
  - e) 4 D x 3 D
  - f) 4 D x 2 D
- 34. Division General Method [Flag Method] Vedicmail
- 35. Squares by Duplex Method
- 36. Addition of Squares
- 37. Square Roots of Exact Squares
- 38. CUBES
- 39. Cube Roots of Exact Cubes
- 40. Fourth Power 2 Digit Number



## Course Content VM- 1400 (Upto 14 yrs) Below 14 yrs.

### Note : Above 14 yrs. - Falls in Next Category

- 1. Multiplication by 11 and multiples of 11
- 2. Multiplication by 12 to 19
- 3. Multiplication by 111
- 4. Multiplication by 222 to 999
- 5. Base Method Multiplication
  - (a) Below Base 10
  - (b) Below Base 20-90
  - (c) Below Base 100
  - (d) Below Base 200-900
  - (e) Above Base 10
  - (f) Above Base 20-90
  - (g) Above Base 100
  - (h) Above Base 200-900
  - (I) Base method when one number is above & other is below the same base

णत एव अब्बु

- (j) When Bases are different but both numbers are below base
- (k) When Bases are different but both numbers are above base
- 6. If the sum of unit digits is 10 and rest place digits are same
- 7. If the sum of ten's place digit is 10 and one's place digits are same
- 8. Multiplication by 9
- 9. Multiplication of Number Ending with 9 i.e. 19-99
- 10. General Method (2 digit x 2 digit)
- 11. Subtraction (all from 9 last from 10)
- 12. Vinculum
- 13. Change unit digit into a vinculum
- 14. Change all digit to vinculum except first
- 15. Devinculate
- 16. Subtraction using vinculum
- 17. Addition Base Method
- 18. Subtraction Base Method
- 19 Addition Using Compliments
- 20 Division by 9

### Course Content VM- 1400 (Upto 14 yrs) Below 14 yrs.

- 21. Division by 8
- 22. Division by 11
- 23. Division by 12
- 24. Division by 99
- 25. Division by number above base 100
- 26. Division Base Method (Above Base)
- 27. Division Base Method (Below Base)
- 28. Squares (Base Method)
- 29. Square of number ending with 5
- 30. Square of number starting with 5
- 31. Tables Using Vinculum
- 32. Multiplication by number of 9's
  - a) Multiplier has equal of 9's as multiplicand digits

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- b) Multiplier has less number of 9's as compared to digits of multiplicand
- c) Multiplier has more number of 9's as compared to digits of multiplicand.
- 33. Multiplication General Method
  - a) 2 D x 2 D
  - b) 3 D x 3 D
  - c) 3 D x 2 D
  - d) 4 D x 4 D
  - e) 4 D x 3 D
  - f) 4 D x 2 D

## Course Content VM- 1401 (Upto 14 yrs) Below 14 yrs.

#### Note : Above 14 yrs. - Falls in Next Category

- 1. Multiplication by 11 and multiples of 11
- 2. Multiplication by 12 to 19
- 3. Multiplication by 111
- 4. Multiplication by 222 to 999
- 5. Base Method Multiplication
  - (a) Below Base 10
  - (b) Below Base 20-90
  - (c) Below Base 100
  - (d) Below Base 200-900
  - (e) Above Base 10
  - (f) Above Base 20-90
  - (g) Above Base 100
  - (h) Above Base 200-900
  - (I) Base method when one number is above & other is below the same base

णत एव अब्बे

- (j) When Bases are different but both numbers are below base
- (k) When Bases are different but both numbers are above base
- 6. If the sum of unit digits is 10 and rest place digits are same
- 7. If the sum of ten's place digit is 10 and one's place digits are same
- 8. Multiplication by 9
- 9. Multiplication of Number Ending with 9 i.e. 19-99
- 10. General Method (2 digit x 2 digit)
- 11. Subtraction (all from 9 last from 10)
- 12. Vinculum
- 13. Change unit digit into a vinculum
- 14. Change all digit to vinculum except first
- 15. Devinculate
- 16. Subtraction using vinculum
- 17. Addition Base Method
- 18. Subtraction Base Method
- 19 Addition Using Compliments
- 20 Division by 9
- 21. Division by 8

### Course Content VM- 1401 (Upto 14 yrs) Below 14 yrs.

- 22. Division by 11
- 23. Division by 12
- 24. Division by 99
- 25. Division by number above base 100
- 26. Division Base Method (Above Base)
- 27. Division Base Method (Below Base)
- 28. Squares (Base Method)
- 29. Square of number ending with 5
- 30. Square of number starting with 5
- 31. Tables Using Vinculum
- 32. Multiplication by number of 9's
  - a) Multiplier has equal of 9's as multiplicand digits
  - b) Multiplier has less number of 9's as compared to digits of multiplicand
  - c) Multiplier has more number of 9's as compared to digits of multiplicand.
- 33. Multiplication General Method
  - a) 2 D x 2 D
  - b) 3 D x 3 D
  - c) 3 D x 2 D
  - d) 4 D x 4 D
  - e) 4 D x 3 D
  - f) 4 D x 2 D
- 34. Division General Method [Flag Method]
- 35. Squares by Duplex Method Of Vericin
- 36. Addition of Squares
- 37. Square Roots of Exact Squares
- 38. CUBES
- 39. Cube Roots of Exact Cubes
- 40. Fourth Power 2 Digit Number



## Course Content VM- 1402 (Upto 14 yrs) Below 14 yrs.

#### Note : Above 14 yrs. - Falls in Next Category

- 1. Multiplication by 11 and multiples of 11
- 2. Multiplication by 12 to 19
- 3. Multiplication by 111
- 4. Multiplication by 222 to 999
- 5. Base Method Multiplication
  - (a) Below Base 10
  - (b) Below Base 20-90
  - (c) Below Base 100
  - (d) Below Base 200-900
  - (e) Above Base 10
  - (f) Above Base 20-90
  - (g) Above Base 100
  - (h) Above Base 200-900
  - (I) Base method when one number is above & other is below the same

base

- (j) When Bases are different but both numbers are below base
- (k) When Bases are different but both numbers are above base
- 6. If the sum of unit digits is 10 and rest place digits are same
- 7. If the sum of ten's place digit is 10 and one's place digits are same
- 8. Multiplication by 9
- 9. Multiplication of Number Ending with 9 i.e. 19-99
- 10. General Method (2 digit x 2 digit)
- 11. Subtraction ( all from 9 last from 10)
- 12. Vinculum
- 13. Change unit digit into a vinculum
- 14. Change all digit to vinculum except first
- 15. Devinculate
- 16. Subtraction using vinculum
- 17. Addition Base Method
- 18. Subtraction Base Method
- 19 Addition Using Compliments
- 20 Division by 9
- 21. Division by 8
- 22. Division by 11
- 23. Division by 12

### Course Content VM- 1402 (Upto 14 yrs) Below 14 vrs.

- 24. Division by 99
- 25. Division by number above base 100
- 26. Division Base Method (Above Base)
- 27. Division Base Method (Below Base)
- 28. Squares (Base Method)
- 29. Square of number ending with 5
- 30. Square of number starting with 5
- 31. Tables Using Vinculum
- 32. Multiplication by number of 9's
  - a) Multiplier has equal of 9's as multiplicand digits
  - b) Multiplier has less number of 9's as compared to digits of multiplicand
  - c) Multiplier has more number of 9's as compared to digits of multiplicand.
- 33. Multiplication General Method
  - a) 2 D x 2 D
  - b) 3 D x 3 D
  - c) 3 D x 2 D
  - d) 4 D x 4 D
  - e) 4 D x 3 D
  - f) 4 D x 2 D
- 34. Division General Method [Flag Method]
- 35. Squares by Duplex Method
- 36. Addition of Squares
- 37. Square Roots of Exact Squares
- 38. CUBES
- 39. Cube Roots of Exact Cubes
- 40. Fourth Power 2 Digit Number
- Vedicmath 41. Addition and Subtraction (Fractions)
- 42. Auxiliary fractions
  - a. Denominator Ending with 9
  - b. Denominator Ending with 8
  - c. Denominator Ending with 7
  - d. Denominator Ending with 6
  - e. Denominator Ending with 1
- 43. Multiplication (3 Rows General Method)
- 44. Multiplication (3 Rows Base Method)



## Course Content VM- 1403 (Upto 14 yrs) Below 14 yrs.

#### Note : Above 14 yrs. - Falls in Next Category

- Multiplication by 11 and multiples of 11 1.
- Multiplication by 12 to 19 2.
- 3. Multiplication by 111
- 4. Multiplication by 222 to 999
- 5. Base Method Multiplication
  - (a) Below Base 10
  - (b) Below Base 20-90
  - (c) Below Base 100
  - (d) Below Base 200-900
  - (e) Above Base 10
  - (f) Above Base 20-90
  - (g) Above Base 100
  - (h) Above Base 200-900
  - (I) Base method when one number is above & other is below the same base

णित एव अ

- (j) When Bases are different but both numbers are below base
- (k) When Bases are different but both numbers are above base
- 6. If the sum of unit digits is 10 and rest place digits are same
- 7. If the sum of ten's place digit is 10 and one's place digits are same
- 8. Multiplication by 9
- 9. Multiplication of Number Ending with 9 i.e. 19-99
- 10. General Method (2 digit x 2 digit)
- 11. Subtraction (all from 9 last from 10)

- 14. Change all digit to vinculum except first
  15. Devinculate
  16. O discussion
- 16. Subtraction using vinculum
- 17. Addition Base Method
- 18. Subtraction Base Method
- 19 Addition Using Compliments
- 20 Division by 9
- 21. Division by 8
- 22. Division by 11
- 23. Division by 12
- 24. Division by 99
- 25. Division by number above base 100
- 26. Division Base Method (Above Base)
- 27. Division Base Method (Below Base)

### Course Content VM- 1403 (Upto 14 yrs) Below 14 yrs.

- 28. Squares (Base Method)
- 29. Square of number ending with 5
- 30. Square of number starting with 5
- 31. Tables Using Vinculum
- 32. Multiplication by number of 9's
  - a) Multiplier has equal of 9's as multiplicand digits
  - b) Multiplier has less number of 9's as compared to digits of multiplicand
  - c) Multiplier has more number of 9's as compared to digits of multiplicand.
- 33. Multiplication General Method
  - a) 2 D x 2 D
  - b) 3 D x 3 D
  - c) 3 D x 2 D
  - d) 4 D x 4 D
  - e) 4 D x 3 D
  - f) 4 D x 2 D
- 34. Division General Method [Flag Method]
- 35. Squares by Duplex Method
- 36. Addition of Squares
- 37. Square Roots of Exact Squares
- 38. CUBES
- 39. Cube Roots of Exact Cubes
- 40. Fourth Power 2 Digit Number
- 41. Addition and Subtraction (Fractions)
- 42. Auxiliary fractions
  - a. Denominator Ending with 9
  - b. Denominator Ending with 8
  - c. Denominator Ending with 7
  - d. Denominator Ending with 6
  - e. Denominator Ending with 1
- 43. Multiplication (3 Rows General Method)
- 44. Multiplication (3 Rows Base Method)
- 45. Magic Squares
- 46. Multiplication (Algebraic Expressions)
- 47. Division (Algebraic Expressions)
- 48. Divisibility Rules
- 49. Approximations
- 50. Calender Technique (Days & Dates)



2 Vedicmath

## Course Content VM- 1500 (Upto 15 yrs) Below 15 yrs.

#### Note : Above 15 yrs. - Falls in Next Category

- 1. Multiplication by 11 and multiples of 11
- 2. Multiplication by 12 to 19
- 3. Multiplication by 111
- 4. Multiplication by 222 to 999
- 5. Base Method Multiplication
  - (a) Below Base 10
  - (b) Below Base 20-90
  - (c) Below Base 100
  - (d) Below Base 200-900
  - (e) Above Base 10
  - (f) Above Base 20-90
  - (g) Above Base 100
  - (h) Above Base 200-900
- (I) Base method when one number is above & other is below the same base

णत एव अब्बे

- (j) When Bases are different but both numbers are below base
- (k) When Bases are different but both numbers are above base
- 6. If the sum of unit digits is 10 and rest place digits are same
- 7. If the sum of ten's place digit is 10 and one's place digits are same
- 8. Multiplication by 9
- 9. Multiplication of Number Ending with 9 i.e. 19-99
- 10. General Method (2 digit x 2 digit)
- 11. Subtraction (all from 9 last from 10)
- 12. Vinculum
- 13. Change unit digit into a vinculum
- 14. Change all digit to vinculum except first
- 15. Devinculate
- 16. Subtraction using vinculum
- 17. Addition Base Method
- 18. Subtraction Base Method
- 19 Addition Using Compliments
- 20 Division by 9
- 21. Division by 8

### Course Content VM- 1500 (Upto 15 yrs) Below 15 yrs.

- 22. Division by 11
- 23. Division by 12
- 24. Division by 99
- 25. Division by number above base 100
- 26. Division Base Method (Above Base)
- 27. Division Base Method (Below Base)
- 28. Squares (Base Method)
- 29. Square of number ending with 5
- 30. Square of number starting with 5
- 31. Tables Using Vinculum
- 32. Multiplication by number of 9's
  - a) Multiplier has equal of 9's as multiplicand digits
  - b) Multiplier has less number of 9's as compared to digits of multiplicand
  - c) Multiplier has more number of 9's as compared to digits of multiplicand.
- 33. Multiplication General Method
  - a) 2 D x 2 D
  - b) 3 D x 3 D
  - c) 3 D x 2 D
  - d) 4 D x 4 D
  - e) 4 D x 3 D
  - f) 4 D x 2 D
- 34. Division General Method [Flag Method]
- 35. Squares by Duplex Method
- 36. Addition of Squares
- 37. Square Roots of Exact Squares
- 38. CUBES
- 39. Cube Roots of Exact Cubes
- 40. Fourth Power 2 Digit Number



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## Course Content VM- 1501 (Upto 15 yrs) Below 15 yrs.

#### Note : Above 15 yrs. - Falls in Next Category

- 1. Multiplication by 11 and multiples of 11
- 2. Multiplication by 12 to 19
- 3. Multiplication by 111
- 4. Multiplication by 222 to 999
- 5. Base Method Multiplication
  - (a) Below Base 10
  - (b) Below Base 20-90
  - (c) Below Base 100
  - (d) Below Base 200-900
  - (e) Above Base 10
  - (f) Above Base 20-90
  - (g) Above Base 100
  - (h) Above Base 200-900
  - (I) Base method when one number is above & other is below the same base

णित एव अब्बे

- (j) When Bases are different but both numbers are below base
- (k) When Bases are different but both numbers are above base
- 6. If the sum of unit digits is 10 and rest place digits are same
- 7. If the sum of ten's place digit is 10 and one's place digits are same
- 8. Multiplication by 9
- 9. Multiplication of Number Ending with 9 i.e. 19-99
- 10. General Method (2 digit x 2 digit)
- 11. Subtraction ( all from 9 last from 10)
- 12. Vinculum
- 13. Change unit digit into a vinculum
- 14. Change all digit to vinculum except first
- 15. Devinculate
- 16. Subtraction using vinculum
- 17. Addition Base Method
- 18. Subtraction Base Method
- 19 Addition Using Compliments
- 20 Division by 9
- 21. Division by 8
- 22. Division by 11

### Course Content VM- 1501 (Upto 15 yrs) Below 15 yrs.

- 23. Division by 12
- 24. Division by 99
- 25. Division by number above base 100
- 26. Division Base Method (Above Base)
- 27. Division Base Method (Below Base)
- 28. Squares (Base Method)
- 29. Square of number ending with 5
- 30. Square of number starting with 5
- 31. Tables Using Vinculum
- 32. Multiplication by number of 9's
  - a) Multiplier has equal of 9's as multiplicand digits
  - b) Multiplier has less number of 9's as compared to digits of multiplicand
  - c) Multiplier has more number of 9's as compared to digits of multiplicand.

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- 33. Multiplication General Method
  - a) 2 D x 2 D
  - b) 3 D x 3 D
  - c) 3 D x 2 D
  - d) 4 D x 4 D
  - e) 4 D x 3 D
  - f) 4 D x 2 D
- 34. Division General Method [Flag Method]
- 35. Squares by Duplex Method
- 36. Addition of Squares
- 37. Square Roots of Exact Squares
- 38. CUBES
- 39. Cube Roots of Exact Cubes
- 40. Fourth Power 2 Digit Number
- 41. Addition and Subtraction (Fractions)
- 42. Auxiliary fractions
  - a. Denominator Ending with 9
  - b. Denominator Ending with 8
  - c. Denominator Ending with 7
  - d. Denominator Ending with 6
  - e. Denominator Ending with 1
- 43. Multiplication (3 Rows General Method)
- 44. Multiplication (3 Rows Base Method)



## Course Content VM- 1502 (Upto 15 yrs) Below 15 yrs.

#### Note : Above 15 vrs. - Falls in Next Category

- 1. Multiplication by 11 and multiples of 11
- Multiplication by 12 to 19 2.
- 3. Multiplication by 111
- 4. Multiplication by 222 to 999
- 5. Base Method Multiplication
  - (a) Below Base 10
  - (b) Below Base 20-90
  - (c) Below Base 100
  - (d) Below Base 200-900
  - (e) Above Base 10
  - (f) Above Base 20-90
  - (g) Above Base 100
  - (h) Above Base 200-900
  - (I) Base method when one number is above & other is below the same base
  - (j) When Bases are different but both numbers are below base
  - (k) When Bases are different but both numbers are above base
- 6. If the sum of unit digits is 10 and rest place digits are same
- 7. If the sum of ten's place digit is 10 and one's place digits are same
- 8. Multiplication by 9
- 9. Multiplication of Number Ending with 9 i.e. 19-99
- 10. General Method (2 digit x 2 digit)
- 11. Subtraction (all from 9 last from 10)
- 12. Vinculum
- 13. Change unit digit into a vinculum
- Vedicmain<sup>®</sup> 14. Change all digit to vinculum except first
- 15. Devinculate
- 16. Subtraction using vinculum
- 17. Addition Base Method
- 18. Subtraction Base Method
- 19 Addition Using Compliments
- 20 Division by 9
- 21. Division by 8
- 22. Division by 11
- 23. Division by 12
- 24. Division by 99
- 25. Division by number above base 100

# Course Content VM- 1502 (Upto 15 yrs) Below 15 yrs.

- 26. Division Base Method (Above Base)
- 27. Division Base Method (Below Base)
- 28. Squares (Base Method)
- 29. Square of number ending with 5
- 30. Square of number starting with 5
- 31. Tables Using Vinculum
- 32. Multiplication by number of 9's
  - a) Multiplier has equal of 9's as multiplicand digits
  - b) Multiplier has less number of 9's as compared to digits of multiplicand
  - c) Multiplier has more number of 9's as compared to digits of multiplicand.
- 33. Multiplication General Method
  - a) 2 D x 2 D
  - b) 3 D x 3 D
  - c) 3 D x 2 D
  - d) 4 D x 4 D
  - e) 4 D x 3 D
  - f) 4 D x 2 D
- 34. Division General Method [Flag Method]
- 35. Squares by Duplex Method
- 36. Addition of Squares
- 37. Square Roots of Exact Squares
- 38. CUBES
- 39. Cube Roots of Exact Cubes
- 40. Fourth Power 2 Digit Number
- Vedicmath 41. Addition and Subtraction (Fractions)
- 42. Auxiliary fractions
  - a. Denominator Ending with 9
  - b. Denominator Ending with 8
  - c. Denominator Ending with 7
  - d. Denominator Ending with 6
  - e. Denominator Ending with 1
- 43. Multiplication (3 Rows General Method)
- 44. Multiplication (3 Rows Base Method)
- 45. Magic Squares
- 46. Multiplication (Algebraic Expressions)
- 47. Division (Algebraic Expressions)
- 48. Divisibility Rules
- 49. Approximations
- 50. Calender Technique (Days & Dates)



### Course Content VM- 1503 (Upto 15 yrs) Below 15 yrs.

#### Note : Above 15 vrs. - Not Eligible

- Multiplication by 11 and multiples of 11 1.
- Multiplication by 12 to 19 2.
- 3. Multiplication by 111
- Multiplication by 222 to 999 4.
- 5. Base Method Multiplication
  - (a) Below Base 10
  - (b) Below Base 20-90
  - (c) Below Base 100
  - (d) Below Base 200-900
  - (e) Above Base 10
  - (f) Above Base 20-90
  - (g) Above Base 100
  - (h) Above Base 200-900
  - (I) Base method when one number is above & other is below the same base
  - (j) When Bases are different but both numbers are below base
  - (k) When Bases are different but both numbers are above base
- 6. If the sum of unit digits is 10 and rest place digits are same
- If the sum of ten's place digit is 10 and one's place digits are same 7.
- 8. Multiplication by 9
- 9. Multiplication of Number Ending with 9 i.e. 19-99
- 10. General Method (2 digit x 2 digit)
- 11. Subtraction (all from 9 last from 10)
- 12. Vinculum
- 13. Change unit digit into a vinculum
- **Content of the state of the st** 14. Change all digit to vinculum except first
- 15. Devinculate
- 16. Subtraction using vinculum
- 17. Addition Base Method
- 18. Subtraction Base Method
- 19 Addition Using Compliments
- 20 Division by 9
- 21. Division by 8
- 22. Division by 11
- 23. Division by 12
- 24. Division by 99
- 25. Division by number above base 100
- 26. Division Base Method (Above Base)

# Course Content VM- 1503 (Upto 15 yrs) Below 15 yrs.

- 27. Division Base Method (Below Base)
- 28. Squares (Base Method)
- 29. Square of number ending with 5
- 30. Square of number starting with 5
- 31. Tables Using Vinculum
- 32. Multiplication by number of 9's
  - a) Multiplier has equal of 9's as multiplicand digits
  - b) Multiplier has less number of 9's as compared to digits of multiplicand
  - c) Multiplier has more number of 9's as compared to digits of multiplicand.
- 33. Multiplication General Method
  - a) 2 D x 2 D
  - b) 3 D x 3 D
  - c) 3 D x 2 D
  - d) 4 D x 4 D
  - e) 4 D x 3 D
  - f) 4 D x 2 D
- 34. Division General Method [Flag Method]
- 35. Squares by Duplex Method
- 36. Addition of Squares
- 37. Square Roots of Exact Squares
- 38. CUBES
- 39. Cube Roots of Exact Cubes
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- 41. Addition and Subtraction (Fractions)
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  - a. Denominator Ending with 9
  - of Vedicmath b. Denominator Ending with 8
  - c. Denominator Ending with 7
  - d. Denominator Ending with 6
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- 43. Multiplication (3 Rows General Method)
- 44. Multiplication (3 Rows Base Method)
- 45. Magic Squares
- 46. Multiplication (Algebraic Expressions)
- 47. Division (Algebraic Expressions)
- 48. Divisibility Rules
- 49. Approximations
- 50. Calender Technique (Days & Dates)
- 51. Pythagoras Theoram

