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MULTIPLICATION SHORTCUT

94 * 96 = ?

A. 10024
B. 9024
C. 10124
D. 9124

Answer:B

Both the numbers are closed to 10 power (base 100)

94 is less than 100 and 96 is 4 less than 100

(-6)*(-4) = 24

94-4 or 96-6 =90

Final Answer = 9024

63 * 67 = ?

A.   4121
B.   4221
C.   4321
D.   4421

Answer: B

W.B : 60 =10*6

63 is 3 more than 60 and 67 is 7 more than 60

(+3) * (+7)=21

63+7 or 67+3 = 70

Since W.B, has *6, use same for 1st compartment (70*6 = 420)

Add (carry forward) 420 /21

Final answer: 4221

43 * 63 =?

A.   2661
B.   2689
C.   2709
D.   2733

Answer: C

Multiply 3*3 =9

Do cross multiplication (4*3)=12 and (6*3=18)

Add both the result (12+18=30) and write down 0 to left of 9 and carry 3

Multiply left hand side numbers (4*6 = 24) and add carry (24 + 3) = 27 and write down to the left of 0

Final result 2709

59 * 42 =?

A. 2478
B. 2499
C. 2519
D. 2548

Answer: A

Multiply 2*9 =18. Note down 8 and carry 1

Do cross multiplication (2*5)=10 and (4*9=36)

Add both the result with carry (10+36+1=47) and write down 7 and carry 4

Multiply left hand side numbers (4*5 = 20) and add carry (20 + 4) = 24 and write down to the left of 7

Final result 2478

38 * 27 = ?

   A.   1026
   B.   1042
   C.   1061
   D.   1087

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Answer: A

Multiply 7*8 =56. Note down 6 and carry 5

Do cross multiplication (7*3)=21 and (2*8=16)

Add both the result with carry (21+16+5=42) and write down 2 and carry 4

Multiply left hand side numbers (2*3 = 6) and add carry (6 + 4) = 10 and write down to the left of 2

Final result 1026

17 * 19 =?

   A.   292
   B.   303
   C.   313
   D.   323

Answer: D

Explanation:

Multiply 7*9 =63. Note down 3 and carry 6

Do cross multiplication (1*9)=9 and (7*1=7)

Add both the result with carry (9+7+6=22) and write down 2 and carry 2

Multiply left hand side numbers (1*1 = 1) and add carry (1 + 2) = 3 and write down to the left of 2

Final result 323

329 * 49 = ?

A. 16121
B. 16221
C. 16341
D. 16621

Answer: A

Multiply 9*9 = 81 (note down 1 and carry 8)

Do cross multiplication and carry (4 * 9 + 9* 2 +8) =62, note down 2 and carry 6

Do cross Multiplication and add carry (3 * 9 + 4 * 2 + 6) =41 , note down 1 and carry 4

Now multiply of left numbers and add carry (3 * 4 + 4)=16,

Final result: 16121

495 * 29 = ?

A. 13945
B. 14105
C. 14355
D. 14555

Answer: C

Multiply 5*9 = 45 (note down 5 and carry 4)

Do cross multiplication and carry (9 * 9 + 5* 2 +4) =95, note down 5 and carry 9

Do cross Multiplication and add carry (4 * 9 + 9 * 2 + 9) =63 , note down 3 and carry 6

Now multiply of left numbers and add carry (4 * 2 + 6)=14,

Final result: 14355

945865 * 9 = ?

A. 8503765
B. 8507435
C. 8509555
D. 8512785

Answer: D

Add 0 to the right end of the number that is 9458650

Then subtract original number from this number, 9458650 - 945865 = 8512785

77777 * 9 = ?

A. 699993
B. 700083
C. 703663
D. 711173

Answer: A

Add 0 to the right end of the number that is 777770

Then subtract original number from this number, 777770 - 77777 = 699993

89 * 69 = ?

A. 5771
B. 6141
C. 6451
D. 6891

Answer:B

Multiply 89 with 6 (First digit of second number) and the result will be 534

Add a 0 to extreme right side of the result, 5340

Multiply 89 with 9 (Second digit of second number) and the result will be 801

Add both the result 5340 and 801 and result becomes 6141

79 * 59 = ?

A. 4281
B. 4661
C. 4881
D. 5121

Answer: B

Explanation:

Multiply 79 with 5 (First digit of second number) and the result will be 395

Add a 0 to extreme right side of the result, 3950

Multiply 79 with 9 (Second digit of second number) and the result will be 711

Add both the result 3950 and 711 and result becomes 4661

32 * 45 =?

   A.   1000
   B.   1260
   C.   1440
   D.   1680

Answer: C

Multiply 32 with 4 (First digit of second number) and the result will be 128

Add a 0 to extreme right side of the result, 1280

Multiply 32 with 5 (Second digit of second number) and the result will be 160

Add both the result 1280 and 160 and result becomes 1440

91 * 92= ?

A. 8152
B. 8372
C. 8692
D. 8822

Answer: B

First of all subtract both the numbers from 100

100-91=9 and 100-92=8

Now, multiply both the numbers 9* 8= 72

Add the numbers 9 + 8 =17

Subtract the result from 100

100 - 17= 83,

Result: 8372

93 * 96 =?

A. 8288
B. 8588
C. 8748
D. 8928

Answer: D

Explanation:

First of all subtract both the numbers from 100

100-93=7 and 100-96=4

Now, multiply both the numbers 7* 4= 28

Add the numbers 7 + 4 =11

Subtract the result from 100

100 - 11= 89,

Result: 8928

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THANK YOU

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