

python-programming-lab-3

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Python Programming - 2101CS405

Lab - 3

Name:- Lakhani Ritesh Shaileshbhai

Enrollment Number:- 22010101099

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1 for and while loop

1.0.1 01) WAP to print 1 to 10

```
[1]: for i in range(1,11):  
      print(i);
```

1
2
3
4
5
6
7
8
9
10

1.0.2 02) WAP to print 1 to n

```
[4]: n = int(input("Enter Number To Print: "));  
  
for i in range(1,n+1):  
    print(i);
```

1
2
3
4
5

6
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1.0.3 03) WAP to print odd numbers between 1 to n

```
[5]: a = input("Enter Number To Print: ");  
  
for i in range(1,n+1):  
    if i%2!=0:  
        print(i);
```

1
3
5
7
9

1.0.4 04) WAP to print numbers between two given numbers which is divisible by 2 but not divisible by 3

```
[13]: a = int(input("Enter First Number:- "))  
b = int(input("Enter Second Number:- "))  
  
for i in range(a, b+1):  
    if i%2==0 and i%3!=0:  
        print(i);
```

8
10

1.0.5 05) WAP to print sum of 1 to n numbers

```
[18]: a = int(input("Enter Number:- "));  
sum = 0;  
for i in range(1,a+1):  
    sum = sum + i;  
print(sum)
```

15

1.0.6 06) WAP to print sum of series $1 + 4 + 9 + 16 + 25 + 36 + \dots n$

```
[26]: import math

a = int(input("Enter Number:- "));
sum = 0;
for i in range(1,a+1):
    sum = sum + math.pow(i,2);
print(f"Sum Of N numbers:-{sum}")
```

Sum Of N numbers:-14.0

1.0.7 07) WAP to print sum of series $1 - 2 + 3 - 4 + 5 - 6 + 7 \dots n$

```
[27]: a = int(input("Enter Number:- "));

sum = 0
sign = 1

for i in range(1,a+1):
    sum = sum + sign*i
    sign = sign * -1
print("Sum of the series is:",sum)
```

Sum of the series is: 2

1.0.8 08) WAP to print multiplication table of given number.

```
[33]: n = int(input("Enter Table Number:"))

for i in range(1,11):
    print(f"{n}X{i}={n*i}")
```

19X1=19
19X2=38
19X3=57
19X4=76
19X5=95
19X6=114
19X7=133
19X8=152
19X9=171
19X10=190

1.0.9 09) WAP to find factorial of the given number

```
[36]: a = int(input("Enter Factorial of the given number:-"))
fact = 1
for i in range(1,a+1):
    fact = fact * i;
print(f"Factorial of {a} is :- {fact}")
```

Factorial of 5 is :- 120

1.0.10 10) WAP to find factors of the given number

```
[40]: a = int(input("Enter Number: "));

for i in range(1,a+1):
    if a%i==0:
        print(i)
```

1
2
3
6

1.0.11 11) WAP to find whether the given number is prime or not.

```
[50]: a = int(input("Enter Number for Checking if the given number is prime or not:"))
isPrime = 0

for i in range(2, a):
    if a % i == 0:
        isPrime = 1
        break

if isPrime == 0:
    print(f"Number {a} is Prime")
else:
    print(f"Number {a} is not Prime")
```

Number 9 is not Prime

1.0.12 12) WAP to print sum of digits of given number

```
[52]: a = int(input("Enter Number:"))

sum = 0;

while a>0:
```

```

    digit = a % 10
    sum = sum + digit
    a = a // 10

print(f"Sum Of Digit Of Numbers:--{sum}")

```

Sum Of Digit Of Numbers:-11

1.0.13 13) WAP to check whether the given number is palindrome or not

```

[55]: a = int(input("Enter Number:"))

original_num = a;
reverse_num = 0;

while a > 0:
    digit = a % 10
    reverse_num = reverse_num*10 + digit
    a = a // 10

if original_num == reverse_num:
    print(f"{original_num} is a palindrome.")
else:
    print(f"{original_num} is not a palindrome.")

```

123 is not a palindrome.

1.0.14 01) WAP to check whether the given number is Armstrong or not.

```

[56]: num = int(input("Enter a number: "))
original_num = num
num_of_digits = len(str(num))
sum_of_digits = 0

while num > 0:
    digit = num % 10
    sum_of_digits += digit ** num_of_digits
    num = num // 10

if original_num == sum_of_digits:
    print(f"{original_num} is an Armstrong number.")
else:
    print(f"{original_num} is not an Armstrong number.")

```

153 is an Armstrong number.

1.0.15 02) WAP to find out prime numbers between given two numbers.

```
[57]: import math

a = int(input("Enter First Number:- "))
b = int(input("Enter Second Number:- "))

for i in range(a,b+1):
    if i > 1:
        is_Prime = True
        for j in range(2,int(math.sqrt(i))+1):
            if i % j == 0:
                is_Prime = False
                break
        if is_Prime:
            print(i);
```

11
13
17
19

1.0.16 03) WAP to calculate x^y without using any function.

```
[60]: x = int(input("Enter the base (x): "))
y = int(input("Enter the exponent (y): "))

result = 1

for i in range(y):
    result *= x

print(f"{x}^{y} is: {result}")
```

2³ is: 8

1.0.17 04) WAP to check whether the given number is perfect or not.

[Sum of factors including 1 excluding number itself]

```
[63]: a = int(input("Enter a number: "))

sum_of_divisors = 0

for i in range(1, a):
    if a % i == 0:
        sum_of_divisors += i
```

```

if sum_of_divisors == a:
    print(f"{a} is a perfect number.")
else:
    print(f"{a} is not a perfect number.")

```

28 is a perfect number.

1.0.18 05) WAP to find the sum of $1 + (1+2) + (1+2+3) + (1+2+3+4) + \dots + (1+2+3+4+\dots+n)$

```

[66]: # Sum of Series:- n(n+1)/2

n = int(input("Enter the value of n: "))

result = 0

for i in range(1, n + 1):
    result = result + i * (i + 1) // 2

print(f"The sum is: {result}")

```

The sum is: 20

1.0.19 06) WAP to print Multiplication Table up to n

```

[69]: n = int(input("Enter the value of n: "))

for i in range(1, 11):
    for j in range(1, n + 1):
        print(f"{j} x {i} = {i * j}\t", end="")
    print()

```

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|-------------|-------------|-------------|-------------|-------------|
| 1 x 1 = 1 | 2 x 1 = 2 | 3 x 1 = 3 | 4 x 1 = 4 | 5 x 1 = 5 |
| 6 x 1 = 6 | 7 x 1 = 7 | 8 x 1 = 8 | 9 x 1 = 9 | 10 x 1 = 10 |
| 11 x 1 = 11 | 12 x 1 = 12 | 13 x 1 = 13 | 14 x 1 = 14 | 15 x 1 = 15 |
| 16 x 1 = 16 | 17 x 1 = 17 | 18 x 1 = 18 | 19 x 1 = 19 | 20 x 1 = 20 |
| 21 x 1 = 21 | 22 x 1 = 22 | 23 x 1 = 23 | 24 x 1 = 24 | 25 x 1 = 25 |
| 26 x 1 = 26 | 27 x 1 = 27 | 28 x 1 = 28 | 29 x 1 = 29 | 30 x 1 = 30 |
| 31 x 1 = 31 | 32 x 1 = 32 | 33 x 1 = 33 | 34 x 1 = 34 | 35 x 1 = 35 |
| 36 x 1 = 36 | 37 x 1 = 37 | 38 x 1 = 38 | 39 x 1 = 39 | 40 x 1 = 40 |
| 41 x 1 = 41 | 42 x 1 = 42 | 43 x 1 = 43 | 44 x 1 = 44 | 45 x 1 = 45 |
| 46 x 1 = 46 | 47 x 1 = 47 | 48 x 1 = 48 | 49 x 1 = 49 | 50 x 1 = 50 |
| 51 x 1 = 51 | 52 x 1 = 52 | 53 x 1 = 53 | 54 x 1 = 54 | 55 x 1 = 55 |
| 56 x 1 = 56 | 57 x 1 = 57 | 58 x 1 = 58 | 59 x 1 = 59 | 60 x 1 = 60 |
| 61 x 1 = 61 | 62 x 1 = 62 | 63 x 1 = 63 | 64 x 1 = 64 | 65 x 1 = 65 |
| 66 x 1 = 66 | 67 x 1 = 67 | 68 x 1 = 68 | 69 x 1 = 69 | 70 x 1 = 70 |
| 71 x 1 = 71 | 72 x 1 = 72 | 73 x 1 = 73 | 74 x 1 = 74 | 75 x 1 = 75 |
| 76 x 1 = 76 | 77 x 1 = 77 | 78 x 1 = 78 | 79 x 1 = 79 | 80 x 1 = 80 |

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|---------------|---------------|---------------|---------------|---------------|
| 81 x 1 = 81 | 82 x 1 = 82 | 83 x 1 = 83 | 84 x 1 = 84 | 85 x 1 = 85 |
| 86 x 1 = 86 | 87 x 1 = 87 | 88 x 1 = 88 | 89 x 1 = 89 | 90 x 1 = 90 |
| 91 x 1 = 91 | 92 x 1 = 92 | 93 x 1 = 93 | 94 x 1 = 94 | 95 x 1 = 95 |
| 96 x 1 = 96 | 97 x 1 = 97 | 98 x 1 = 98 | 99 x 1 = 99 | 100 x 1 = 100 |
| 101 x 1 = 101 | 102 x 1 = 102 | 103 x 1 = 103 | 104 x 1 = 104 | 105 x 1 = 105 |
| 106 x 1 = 106 | 107 x 1 = 107 | 108 x 1 = 108 | 109 x 1 = 109 | 110 x 1 = 110 |
| 111 x 1 = 111 | 112 x 1 = 112 | 113 x 1 = 113 | 114 x 1 = 114 | 115 x 1 = 115 |
| 116 x 1 = 116 | 117 x 1 = 117 | 118 x 1 = 118 | 119 x 1 = 119 | 120 x 1 = 120 |
| 1 x 2 = 2 | 2 x 2 = 4 | 3 x 2 = 6 | 4 x 2 = 8 | 5 x 2 = 10 |
| 6 x 2 = 12 | 7 x 2 = 14 | 8 x 2 = 16 | 9 x 2 = 18 | 10 x 2 = 20 |
| 11 x 2 = 22 | 12 x 2 = 24 | 13 x 2 = 26 | 14 x 2 = 28 | 15 x 2 = 30 |
| 16 x 2 = 32 | 17 x 2 = 34 | 18 x 2 = 36 | 19 x 2 = 38 | 20 x 2 = 40 |
| 21 x 2 = 42 | 22 x 2 = 44 | 23 x 2 = 46 | 24 x 2 = 48 | 25 x 2 = 50 |
| 26 x 2 = 52 | 27 x 2 = 54 | 28 x 2 = 56 | 29 x 2 = 58 | 30 x 2 = 60 |
| 31 x 2 = 62 | 32 x 2 = 64 | 33 x 2 = 66 | 34 x 2 = 68 | 35 x 2 = 70 |
| 36 x 2 = 72 | 37 x 2 = 74 | 38 x 2 = 76 | 39 x 2 = 78 | 40 x 2 = 80 |
| 41 x 2 = 82 | 42 x 2 = 84 | 43 x 2 = 86 | 44 x 2 = 88 | 45 x 2 = 90 |
| 46 x 2 = 92 | 47 x 2 = 94 | 48 x 2 = 96 | 49 x 2 = 98 | 50 x 2 = 100 |
| 51 x 2 = 102 | 52 x 2 = 104 | 53 x 2 = 106 | 54 x 2 = 108 | 55 x 2 = 110 |
| 56 x 2 = 112 | 57 x 2 = 114 | 58 x 2 = 116 | 59 x 2 = 118 | 60 x 2 = 120 |
| 61 x 2 = 122 | 62 x 2 = 124 | 63 x 2 = 126 | 64 x 2 = 128 | 65 x 2 = 130 |
| 66 x 2 = 132 | 67 x 2 = 134 | 68 x 2 = 136 | 69 x 2 = 138 | 70 x 2 = 140 |
| 71 x 2 = 142 | 72 x 2 = 144 | 73 x 2 = 146 | 74 x 2 = 148 | 75 x 2 = 150 |
| 76 x 2 = 152 | 77 x 2 = 154 | 78 x 2 = 156 | 79 x 2 = 158 | 80 x 2 = 160 |
| 81 x 2 = 162 | 82 x 2 = 164 | 83 x 2 = 166 | 84 x 2 = 168 | 85 x 2 = 170 |
| 86 x 2 = 172 | 87 x 2 = 174 | 88 x 2 = 176 | 89 x 2 = 178 | 90 x 2 = 180 |
| 91 x 2 = 182 | 92 x 2 = 184 | 93 x 2 = 186 | 94 x 2 = 188 | 95 x 2 = 190 |
| 96 x 2 = 192 | 97 x 2 = 194 | 98 x 2 = 196 | 99 x 2 = 198 | 100 x 2 = 200 |
| 101 x 2 = 202 | 102 x 2 = 204 | 103 x 2 = 206 | 104 x 2 = 208 | 105 x 2 = 210 |
| 106 x 2 = 212 | 107 x 2 = 214 | 108 x 2 = 216 | 109 x 2 = 218 | 110 x 2 = 220 |
| 111 x 2 = 222 | 112 x 2 = 224 | 113 x 2 = 226 | 114 x 2 = 228 | 115 x 2 = 230 |
| 116 x 2 = 232 | 117 x 2 = 234 | 118 x 2 = 236 | 119 x 2 = 238 | 120 x 2 = 240 |
| 1 x 3 = 3 | 2 x 3 = 6 | 3 x 3 = 9 | 4 x 3 = 12 | 5 x 3 = 15 |
| 6 x 3 = 18 | 7 x 3 = 21 | 8 x 3 = 24 | 9 x 3 = 27 | 10 x 3 = 30 |
| 11 x 3 = 33 | 12 x 3 = 36 | 13 x 3 = 39 | 14 x 3 = 42 | 15 x 3 = 45 |
| 16 x 3 = 48 | 17 x 3 = 51 | 18 x 3 = 54 | 19 x 3 = 57 | 20 x 3 = 60 |
| 21 x 3 = 63 | 22 x 3 = 66 | 23 x 3 = 69 | 24 x 3 = 72 | 25 x 3 = 75 |
| 26 x 3 = 78 | 27 x 3 = 81 | 28 x 3 = 84 | 29 x 3 = 87 | 30 x 3 = 90 |
| 31 x 3 = 93 | 32 x 3 = 96 | 33 x 3 = 99 | 34 x 3 = 102 | 35 x 3 = 105 |
| 36 x 3 = 108 | 37 x 3 = 111 | 38 x 3 = 114 | 39 x 3 = 117 | 40 x 3 = 120 |
| 41 x 3 = 123 | 42 x 3 = 126 | 43 x 3 = 129 | 44 x 3 = 132 | 45 x 3 = 135 |
| 46 x 3 = 138 | 47 x 3 = 141 | 48 x 3 = 144 | 49 x 3 = 147 | 50 x 3 = 150 |
| 51 x 3 = 153 | 52 x 3 = 156 | 53 x 3 = 159 | 54 x 3 = 162 | 55 x 3 = 165 |
| 56 x 3 = 168 | 57 x 3 = 171 | 58 x 3 = 174 | 59 x 3 = 177 | 60 x 3 = 180 |
| 61 x 3 = 183 | 62 x 3 = 186 | 63 x 3 = 189 | 64 x 3 = 192 | 65 x 3 = 195 |
| 66 x 3 = 198 | 67 x 3 = 201 | 68 x 3 = 204 | 69 x 3 = 207 | 70 x 3 = 210 |
| 71 x 3 = 213 | 72 x 3 = 216 | 73 x 3 = 219 | 74 x 3 = 222 | 75 x 3 = 225 |
| 76 x 3 = 228 | 77 x 3 = 231 | 78 x 3 = 234 | 79 x 3 = 237 | 80 x 3 = 240 |

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|---------------|---------------|---------------|---------------|---------------|
| 81 x 3 = 243 | 82 x 3 = 246 | 83 x 3 = 249 | 84 x 3 = 252 | 85 x 3 = 255 |
| 86 x 3 = 258 | 87 x 3 = 261 | 88 x 3 = 264 | 89 x 3 = 267 | 90 x 3 = 270 |
| 91 x 3 = 273 | 92 x 3 = 276 | 93 x 3 = 279 | 94 x 3 = 282 | 95 x 3 = 285 |
| 96 x 3 = 288 | 97 x 3 = 291 | 98 x 3 = 294 | 99 x 3 = 297 | 100 x 3 = 300 |
| 101 x 3 = 303 | 102 x 3 = 306 | 103 x 3 = 309 | 104 x 3 = 312 | 105 x 3 = 315 |
| 106 x 3 = 318 | 107 x 3 = 321 | 108 x 3 = 324 | 109 x 3 = 327 | 110 x 3 = 330 |
| 111 x 3 = 333 | 112 x 3 = 336 | 113 x 3 = 339 | 114 x 3 = 342 | 115 x 3 = 345 |
| 116 x 3 = 348 | 117 x 3 = 351 | 118 x 3 = 354 | 119 x 3 = 357 | 120 x 3 = 360 |
| 1 x 4 = 4 | 2 x 4 = 8 | 3 x 4 = 12 | 4 x 4 = 16 | 5 x 4 = 20 |
| 6 x 4 = 24 | 7 x 4 = 28 | 8 x 4 = 32 | 9 x 4 = 36 | 10 x 4 = 40 |
| 11 x 4 = 44 | 12 x 4 = 48 | 13 x 4 = 52 | 14 x 4 = 56 | 15 x 4 = 60 |
| 16 x 4 = 64 | 17 x 4 = 68 | 18 x 4 = 72 | 19 x 4 = 76 | 20 x 4 = 80 |
| 21 x 4 = 84 | 22 x 4 = 88 | 23 x 4 = 92 | 24 x 4 = 96 | 25 x 4 = 100 |
| 26 x 4 = 104 | 27 x 4 = 108 | 28 x 4 = 112 | 29 x 4 = 116 | 30 x 4 = 120 |
| 31 x 4 = 124 | 32 x 4 = 128 | 33 x 4 = 132 | 34 x 4 = 136 | 35 x 4 = 140 |
| 36 x 4 = 144 | 37 x 4 = 148 | 38 x 4 = 152 | 39 x 4 = 156 | 40 x 4 = 160 |
| 41 x 4 = 164 | 42 x 4 = 168 | 43 x 4 = 172 | 44 x 4 = 176 | 45 x 4 = 180 |
| 46 x 4 = 184 | 47 x 4 = 188 | 48 x 4 = 192 | 49 x 4 = 196 | 50 x 4 = 200 |
| 51 x 4 = 204 | 52 x 4 = 208 | 53 x 4 = 212 | 54 x 4 = 216 | 55 x 4 = 220 |
| 56 x 4 = 224 | 57 x 4 = 228 | 58 x 4 = 232 | 59 x 4 = 236 | 60 x 4 = 240 |
| 61 x 4 = 244 | 62 x 4 = 248 | 63 x 4 = 252 | 64 x 4 = 256 | 65 x 4 = 260 |
| 66 x 4 = 264 | 67 x 4 = 268 | 68 x 4 = 272 | 69 x 4 = 276 | 70 x 4 = 280 |
| 71 x 4 = 284 | 72 x 4 = 288 | 73 x 4 = 292 | 74 x 4 = 296 | 75 x 4 = 300 |
| 76 x 4 = 304 | 77 x 4 = 308 | 78 x 4 = 312 | 79 x 4 = 316 | 80 x 4 = 320 |
| 81 x 4 = 324 | 82 x 4 = 328 | 83 x 4 = 332 | 84 x 4 = 336 | 85 x 4 = 340 |
| 86 x 4 = 344 | 87 x 4 = 348 | 88 x 4 = 352 | 89 x 4 = 356 | 90 x 4 = 360 |
| 91 x 4 = 364 | 92 x 4 = 368 | 93 x 4 = 372 | 94 x 4 = 376 | 95 x 4 = 380 |
| 96 x 4 = 384 | 97 x 4 = 388 | 98 x 4 = 392 | 99 x 4 = 396 | 100 x 4 = 400 |
| 101 x 4 = 404 | 102 x 4 = 408 | 103 x 4 = 412 | 104 x 4 = 416 | 105 x 4 = 420 |
| 106 x 4 = 424 | 107 x 4 = 428 | 108 x 4 = 432 | 109 x 4 = 436 | 110 x 4 = 440 |
| 111 x 4 = 444 | 112 x 4 = 448 | 113 x 4 = 452 | 114 x 4 = 456 | 115 x 4 = 460 |
| 116 x 4 = 464 | 117 x 4 = 468 | 118 x 4 = 472 | 119 x 4 = 476 | 120 x 4 = 480 |
| 1 x 5 = 5 | 2 x 5 = 10 | 3 x 5 = 15 | 4 x 5 = 20 | 5 x 5 = 25 |
| 6 x 5 = 30 | 7 x 5 = 35 | 8 x 5 = 40 | 9 x 5 = 45 | 10 x 5 = 50 |
| 11 x 5 = 55 | 12 x 5 = 60 | 13 x 5 = 65 | 14 x 5 = 70 | 15 x 5 = 75 |
| 16 x 5 = 80 | 17 x 5 = 85 | 18 x 5 = 90 | 19 x 5 = 95 | 20 x 5 = 100 |
| 21 x 5 = 105 | 22 x 5 = 110 | 23 x 5 = 115 | 24 x 5 = 120 | 25 x 5 = 125 |
| 26 x 5 = 130 | 27 x 5 = 135 | 28 x 5 = 140 | 29 x 5 = 145 | 30 x 5 = 150 |
| 31 x 5 = 155 | 32 x 5 = 160 | 33 x 5 = 165 | 34 x 5 = 170 | 35 x 5 = 175 |
| 36 x 5 = 180 | 37 x 5 = 185 | 38 x 5 = 190 | 39 x 5 = 195 | 40 x 5 = 200 |
| 41 x 5 = 205 | 42 x 5 = 210 | 43 x 5 = 215 | 44 x 5 = 220 | 45 x 5 = 225 |
| 46 x 5 = 230 | 47 x 5 = 235 | 48 x 5 = 240 | 49 x 5 = 245 | 50 x 5 = 250 |
| 51 x 5 = 255 | 52 x 5 = 260 | 53 x 5 = 265 | 54 x 5 = 270 | 55 x 5 = 275 |
| 56 x 5 = 280 | 57 x 5 = 285 | 58 x 5 = 290 | 59 x 5 = 295 | 60 x 5 = 300 |
| 61 x 5 = 305 | 62 x 5 = 310 | 63 x 5 = 315 | 64 x 5 = 320 | 65 x 5 = 325 |
| 66 x 5 = 330 | 67 x 5 = 335 | 68 x 5 = 340 | 69 x 5 = 345 | 70 x 5 = 350 |
| 71 x 5 = 355 | 72 x 5 = 360 | 73 x 5 = 365 | 74 x 5 = 370 | 75 x 5 = 375 |
| 76 x 5 = 380 | 77 x 5 = 385 | 78 x 5 = 390 | 79 x 5 = 395 | 80 x 5 = 400 |

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| 81 x 5 = 405 | 82 x 5 = 410 | 83 x 5 = 415 | 84 x 5 = 420 | 85 x 5 = 425 |
| 86 x 5 = 430 | 87 x 5 = 435 | 88 x 5 = 440 | 89 x 5 = 445 | 90 x 5 = 450 |
| 91 x 5 = 455 | 92 x 5 = 460 | 93 x 5 = 465 | 94 x 5 = 470 | 95 x 5 = 475 |
| 96 x 5 = 480 | 97 x 5 = 485 | 98 x 5 = 490 | 99 x 5 = 495 | 100 x 5 = 500 |
| 101 x 5 = 505 | 102 x 5 = 510 | 103 x 5 = 515 | 104 x 5 = 520 | 105 x 5 = 525 |
| 106 x 5 = 530 | 107 x 5 = 535 | 108 x 5 = 540 | 109 x 5 = 545 | 110 x 5 = 550 |
| 111 x 5 = 555 | 112 x 5 = 560 | 113 x 5 = 565 | 114 x 5 = 570 | 115 x 5 = 575 |
| 116 x 5 = 580 | 117 x 5 = 585 | 118 x 5 = 590 | 119 x 5 = 595 | 120 x 5 = 600 |
| 1 x 6 = 6 | 2 x 6 = 12 | 3 x 6 = 18 | 4 x 6 = 24 | 5 x 6 = 30 |
| 6 x 6 = 36 | 7 x 6 = 42 | 8 x 6 = 48 | 9 x 6 = 54 | 10 x 6 = 60 |
| 11 x 6 = 66 | 12 x 6 = 72 | 13 x 6 = 78 | 14 x 6 = 84 | 15 x 6 = 90 |
| 16 x 6 = 96 | 17 x 6 = 102 | 18 x 6 = 108 | 19 x 6 = 114 | 20 x 6 = 120 |
| 21 x 6 = 126 | 22 x 6 = 132 | 23 x 6 = 138 | 24 x 6 = 144 | 25 x 6 = 150 |
| 26 x 6 = 156 | 27 x 6 = 162 | 28 x 6 = 168 | 29 x 6 = 174 | 30 x 6 = 180 |
| 31 x 6 = 186 | 32 x 6 = 192 | 33 x 6 = 198 | 34 x 6 = 204 | 35 x 6 = 210 |
| 36 x 6 = 216 | 37 x 6 = 222 | 38 x 6 = 228 | 39 x 6 = 234 | 40 x 6 = 240 |
| 41 x 6 = 246 | 42 x 6 = 252 | 43 x 6 = 258 | 44 x 6 = 264 | 45 x 6 = 270 |
| 46 x 6 = 276 | 47 x 6 = 282 | 48 x 6 = 288 | 49 x 6 = 294 | 50 x 6 = 300 |
| 51 x 6 = 306 | 52 x 6 = 312 | 53 x 6 = 318 | 54 x 6 = 324 | 55 x 6 = 330 |
| 56 x 6 = 336 | 57 x 6 = 342 | 58 x 6 = 348 | 59 x 6 = 354 | 60 x 6 = 360 |
| 61 x 6 = 366 | 62 x 6 = 372 | 63 x 6 = 378 | 64 x 6 = 384 | 65 x 6 = 390 |
| 66 x 6 = 396 | 67 x 6 = 402 | 68 x 6 = 408 | 69 x 6 = 414 | 70 x 6 = 420 |
| 71 x 6 = 426 | 72 x 6 = 432 | 73 x 6 = 438 | 74 x 6 = 444 | 75 x 6 = 450 |
| 76 x 6 = 456 | 77 x 6 = 462 | 78 x 6 = 468 | 79 x 6 = 474 | 80 x 6 = 480 |
| 81 x 6 = 486 | 82 x 6 = 492 | 83 x 6 = 498 | 84 x 6 = 504 | 85 x 6 = 510 |
| 86 x 6 = 516 | 87 x 6 = 522 | 88 x 6 = 528 | 89 x 6 = 534 | 90 x 6 = 540 |
| 91 x 6 = 546 | 92 x 6 = 552 | 93 x 6 = 558 | 94 x 6 = 564 | 95 x 6 = 570 |
| 96 x 6 = 576 | 97 x 6 = 582 | 98 x 6 = 588 | 99 x 6 = 594 | 100 x 6 = 600 |
| 101 x 6 = 606 | 102 x 6 = 612 | 103 x 6 = 618 | 104 x 6 = 624 | 105 x 6 = 630 |
| 106 x 6 = 636 | 107 x 6 = 642 | 108 x 6 = 648 | 109 x 6 = 654 | 110 x 6 = 660 |
| 111 x 6 = 666 | 112 x 6 = 672 | 113 x 6 = 678 | 114 x 6 = 684 | 115 x 6 = 690 |
| 116 x 6 = 696 | 117 x 6 = 702 | 118 x 6 = 708 | 119 x 6 = 714 | 120 x 6 = 720 |
| 1 x 7 = 7 | 2 x 7 = 14 | 3 x 7 = 21 | 4 x 7 = 28 | 5 x 7 = 35 |
| 6 x 7 = 42 | 7 x 7 = 49 | 8 x 7 = 56 | 9 x 7 = 63 | 10 x 7 = 70 |
| 11 x 7 = 77 | 12 x 7 = 84 | 13 x 7 = 91 | 14 x 7 = 98 | 15 x 7 = 105 |
| 16 x 7 = 112 | 17 x 7 = 119 | 18 x 7 = 126 | 19 x 7 = 133 | 20 x 7 = 140 |
| 21 x 7 = 147 | 22 x 7 = 154 | 23 x 7 = 161 | 24 x 7 = 168 | 25 x 7 = 175 |
| 26 x 7 = 182 | 27 x 7 = 189 | 28 x 7 = 196 | 29 x 7 = 203 | 30 x 7 = 210 |
| 31 x 7 = 217 | 32 x 7 = 224 | 33 x 7 = 231 | 34 x 7 = 238 | 35 x 7 = 245 |
| 36 x 7 = 252 | 37 x 7 = 259 | 38 x 7 = 266 | 39 x 7 = 273 | 40 x 7 = 280 |
| 41 x 7 = 287 | 42 x 7 = 294 | 43 x 7 = 301 | 44 x 7 = 308 | 45 x 7 = 315 |
| 46 x 7 = 322 | 47 x 7 = 329 | 48 x 7 = 336 | 49 x 7 = 343 | 50 x 7 = 350 |
| 51 x 7 = 357 | 52 x 7 = 364 | 53 x 7 = 371 | 54 x 7 = 378 | 55 x 7 = 385 |
| 56 x 7 = 392 | 57 x 7 = 399 | 58 x 7 = 406 | 59 x 7 = 413 | 60 x 7 = 420 |
| 61 x 7 = 427 | 62 x 7 = 434 | 63 x 7 = 441 | 64 x 7 = 448 | 65 x 7 = 455 |
| 66 x 7 = 462 | 67 x 7 = 469 | 68 x 7 = 476 | 69 x 7 = 483 | 70 x 7 = 490 |
| 71 x 7 = 497 | 72 x 7 = 504 | 73 x 7 = 511 | 74 x 7 = 518 | 75 x 7 = 525 |
| 76 x 7 = 532 | 77 x 7 = 539 | 78 x 7 = 546 | 79 x 7 = 553 | 80 x 7 = 560 |

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|---------------|---------------|---------------|---------------|---------------|
| 81 x 7 = 567 | 82 x 7 = 574 | 83 x 7 = 581 | 84 x 7 = 588 | 85 x 7 = 595 |
| 86 x 7 = 602 | 87 x 7 = 609 | 88 x 7 = 616 | 89 x 7 = 623 | 90 x 7 = 630 |
| 91 x 7 = 637 | 92 x 7 = 644 | 93 x 7 = 651 | 94 x 7 = 658 | 95 x 7 = 665 |
| 96 x 7 = 672 | 97 x 7 = 679 | 98 x 7 = 686 | 99 x 7 = 693 | 100 x 7 = 700 |
| 101 x 7 = 707 | 102 x 7 = 714 | 103 x 7 = 721 | 104 x 7 = 728 | 105 x 7 = 735 |
| 106 x 7 = 742 | 107 x 7 = 749 | 108 x 7 = 756 | 109 x 7 = 763 | 110 x 7 = 770 |
| 111 x 7 = 777 | 112 x 7 = 784 | 113 x 7 = 791 | 114 x 7 = 798 | 115 x 7 = 805 |
| 116 x 7 = 812 | 117 x 7 = 819 | 118 x 7 = 826 | 119 x 7 = 833 | 120 x 7 = 840 |
| 1 x 8 = 8 | 2 x 8 = 16 | 3 x 8 = 24 | 4 x 8 = 32 | 5 x 8 = 40 |
| 6 x 8 = 48 | 7 x 8 = 56 | 8 x 8 = 64 | 9 x 8 = 72 | 10 x 8 = 80 |
| 11 x 8 = 88 | 12 x 8 = 96 | 13 x 8 = 104 | 14 x 8 = 112 | 15 x 8 = 120 |
| 16 x 8 = 128 | 17 x 8 = 136 | 18 x 8 = 144 | 19 x 8 = 152 | 20 x 8 = 160 |
| 21 x 8 = 168 | 22 x 8 = 176 | 23 x 8 = 184 | 24 x 8 = 192 | 25 x 8 = 200 |
| 26 x 8 = 208 | 27 x 8 = 216 | 28 x 8 = 224 | 29 x 8 = 232 | 30 x 8 = 240 |
| 31 x 8 = 248 | 32 x 8 = 256 | 33 x 8 = 264 | 34 x 8 = 272 | 35 x 8 = 280 |
| 36 x 8 = 288 | 37 x 8 = 296 | 38 x 8 = 304 | 39 x 8 = 312 | 40 x 8 = 320 |
| 41 x 8 = 328 | 42 x 8 = 336 | 43 x 8 = 344 | 44 x 8 = 352 | 45 x 8 = 360 |
| 46 x 8 = 368 | 47 x 8 = 376 | 48 x 8 = 384 | 49 x 8 = 392 | 50 x 8 = 400 |
| 51 x 8 = 408 | 52 x 8 = 416 | 53 x 8 = 424 | 54 x 8 = 432 | 55 x 8 = 440 |
| 56 x 8 = 448 | 57 x 8 = 456 | 58 x 8 = 464 | 59 x 8 = 472 | 60 x 8 = 480 |
| 61 x 8 = 488 | 62 x 8 = 496 | 63 x 8 = 504 | 64 x 8 = 512 | 65 x 8 = 520 |
| 66 x 8 = 528 | 67 x 8 = 536 | 68 x 8 = 544 | 69 x 8 = 552 | 70 x 8 = 560 |
| 71 x 8 = 568 | 72 x 8 = 576 | 73 x 8 = 584 | 74 x 8 = 592 | 75 x 8 = 600 |
| 76 x 8 = 608 | 77 x 8 = 616 | 78 x 8 = 624 | 79 x 8 = 632 | 80 x 8 = 640 |
| 81 x 8 = 648 | 82 x 8 = 656 | 83 x 8 = 664 | 84 x 8 = 672 | 85 x 8 = 680 |
| 86 x 8 = 688 | 87 x 8 = 696 | 88 x 8 = 704 | 89 x 8 = 712 | 90 x 8 = 720 |
| 91 x 8 = 728 | 92 x 8 = 736 | 93 x 8 = 744 | 94 x 8 = 752 | 95 x 8 = 760 |
| 96 x 8 = 768 | 97 x 8 = 776 | 98 x 8 = 784 | 99 x 8 = 792 | 100 x 8 = 800 |
| 101 x 8 = 808 | 102 x 8 = 816 | 103 x 8 = 824 | 104 x 8 = 832 | 105 x 8 = 840 |
| 106 x 8 = 848 | 107 x 8 = 856 | 108 x 8 = 864 | 109 x 8 = 872 | 110 x 8 = 880 |
| 111 x 8 = 888 | 112 x 8 = 896 | 113 x 8 = 904 | 114 x 8 = 912 | 115 x 8 = 920 |
| 116 x 8 = 928 | 117 x 8 = 936 | 118 x 8 = 944 | 119 x 8 = 952 | 120 x 8 = 960 |
| 1 x 9 = 9 | 2 x 9 = 18 | 3 x 9 = 27 | 4 x 9 = 36 | 5 x 9 = 45 |
| 6 x 9 = 54 | 7 x 9 = 63 | 8 x 9 = 72 | 9 x 9 = 81 | 10 x 9 = 90 |
| 11 x 9 = 99 | 12 x 9 = 108 | 13 x 9 = 117 | 14 x 9 = 126 | 15 x 9 = 135 |
| 16 x 9 = 144 | 17 x 9 = 153 | 18 x 9 = 162 | 19 x 9 = 171 | 20 x 9 = 180 |
| 21 x 9 = 189 | 22 x 9 = 198 | 23 x 9 = 207 | 24 x 9 = 216 | 25 x 9 = 225 |
| 26 x 9 = 234 | 27 x 9 = 243 | 28 x 9 = 252 | 29 x 9 = 261 | 30 x 9 = 270 |
| 31 x 9 = 279 | 32 x 9 = 288 | 33 x 9 = 297 | 34 x 9 = 306 | 35 x 9 = 315 |
| 36 x 9 = 324 | 37 x 9 = 333 | 38 x 9 = 342 | 39 x 9 = 351 | 40 x 9 = 360 |
| 41 x 9 = 369 | 42 x 9 = 378 | 43 x 9 = 387 | 44 x 9 = 396 | 45 x 9 = 405 |
| 46 x 9 = 414 | 47 x 9 = 423 | 48 x 9 = 432 | 49 x 9 = 441 | 50 x 9 = 450 |
| 51 x 9 = 459 | 52 x 9 = 468 | 53 x 9 = 477 | 54 x 9 = 486 | 55 x 9 = 495 |
| 56 x 9 = 504 | 57 x 9 = 513 | 58 x 9 = 522 | 59 x 9 = 531 | 60 x 9 = 540 |
| 61 x 9 = 549 | 62 x 9 = 558 | 63 x 9 = 567 | 64 x 9 = 576 | 65 x 9 = 585 |
| 66 x 9 = 594 | 67 x 9 = 603 | 68 x 9 = 612 | 69 x 9 = 621 | 70 x 9 = 630 |
| 71 x 9 = 639 | 72 x 9 = 648 | 73 x 9 = 657 | 74 x 9 = 666 | 75 x 9 = 675 |
| 76 x 9 = 684 | 77 x 9 = 693 | 78 x 9 = 702 | 79 x 9 = 711 | 80 x 9 = 720 |

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| 81 x 9 = 729 | 82 x 9 = 738 | 83 x 9 = 747 | 84 x 9 = 756 | 85 x 9 = 765 |
| 86 x 9 = 774 | 87 x 9 = 783 | 88 x 9 = 792 | 89 x 9 = 801 | 90 x 9 = 810 |
| 91 x 9 = 819 | 92 x 9 = 828 | 93 x 9 = 837 | 94 x 9 = 846 | 95 x 9 = 855 |
| 96 x 9 = 864 | 97 x 9 = 873 | 98 x 9 = 882 | 99 x 9 = 891 | 100 x 9 = 900 |
| 101 x 9 = 909 | 102 x 9 = 918 | 103 x 9 = 927 | 104 x 9 = 936 | 105 x 9 = 945 |
| 106 x 9 = 954 | 107 x 9 = 963 | 108 x 9 = 972 | 109 x 9 = 981 | 110 x 9 = 990 |
| 111 x 9 = 999 | 112 x 9 = 1008 | 113 x 9 = 1017 | 114 x 9 = 1026 | 115 x 9 = 1035 |
| 116 x 9 = 1044 | 117 x 9 = 1053 | 118 x 9 = 1062 | 119 x 9 = 1071 | 120 x 9 = 1080 |
| 1 x 10 = 10 | 2 x 10 = 20 | 3 x 10 = 30 | 4 x 10 = 40 | 5 x 10 = 50 |
| 6 x 10 = 60 | 7 x 10 = 70 | 8 x 10 = 80 | 9 x 10 = 90 | 10 x 10 = 100 |
| 11 x 10 = 110 | 12 x 10 = 120 | 13 x 10 = 130 | 14 x 10 = 140 | 15 x 10 = 150 |
| 16 x 10 = 160 | 17 x 10 = 170 | 18 x 10 = 180 | 19 x 10 = 190 | 20 x 10 = 200 |
| 21 x 10 = 210 | 22 x 10 = 220 | 23 x 10 = 230 | 24 x 10 = 240 | 25 x 10 = 250 |
| 26 x 10 = 260 | 27 x 10 = 270 | 28 x 10 = 280 | 29 x 10 = 290 | 30 x 10 = 300 |
| 31 x 10 = 310 | 32 x 10 = 320 | 33 x 10 = 330 | 34 x 10 = 340 | 35 x 10 = 350 |
| 36 x 10 = 360 | 37 x 10 = 370 | 38 x 10 = 380 | 39 x 10 = 390 | 40 x 10 = 400 |
| 41 x 10 = 410 | 42 x 10 = 420 | 43 x 10 = 430 | 44 x 10 = 440 | 45 x 10 = 450 |
| 46 x 10 = 460 | 47 x 10 = 470 | 48 x 10 = 480 | 49 x 10 = 490 | 50 x 10 = 500 |
| 51 x 10 = 510 | 52 x 10 = 520 | 53 x 10 = 530 | 54 x 10 = 540 | 55 x 10 = 550 |
| 56 x 10 = 560 | 57 x 10 = 570 | 58 x 10 = 580 | 59 x 10 = 590 | 60 x 10 = 600 |
| 61 x 10 = 610 | 62 x 10 = 620 | 63 x 10 = 630 | 64 x 10 = 640 | 65 x 10 = 650 |
| 66 x 10 = 660 | 67 x 10 = 670 | 68 x 10 = 680 | 69 x 10 = 690 | 70 x 10 = 700 |
| 71 x 10 = 710 | 72 x 10 = 720 | 73 x 10 = 730 | 74 x 10 = 740 | 75 x 10 = 750 |
| 76 x 10 = 760 | 77 x 10 = 770 | 78 x 10 = 780 | 79 x 10 = 790 | 80 x 10 = 800 |
| 81 x 10 = 810 | 82 x 10 = 820 | 83 x 10 = 830 | 84 x 10 = 840 | 85 x 10 = 850 |
| 86 x 10 = 860 | 87 x 10 = 870 | 88 x 10 = 880 | 89 x 10 = 890 | 90 x 10 = 900 |
| 91 x 10 = 910 | 92 x 10 = 920 | 93 x 10 = 930 | 94 x 10 = 940 | 95 x 10 = 950 |
| 96 x 10 = 960 | 97 x 10 = 970 | 98 x 10 = 980 | 99 x 10 = 990 | 100 x 10 = 1000 |
| 101 x 10 = 1010 | 102 x 10 = 1020 | 103 x 10 = 1030 | 104 x 10 = 1040 | 105 x 10 = 1050 |
| 106 x 10 = 1060 | 107 x 10 = 1070 | 108 x 10 = 1080 | 109 x 10 = 1090 | 110 x 10 = 1100 |
| 111 x 10 = 1110 | 112 x 10 = 1120 | 113 x 10 = 1130 | 114 x 10 = 1140 | 115 x 10 = 1150 |
| 116 x 10 = 1160 | 117 x 10 = 1170 | 118 x 10 = 1180 | 119 x 10 = 1190 | 120 x 10 = 1200 |