Which one of the following is not a prime number?

A. 31

B. 61

C. 71

D. 91

Answer & Explanation:

Answer: Option D

Explanation: 91 is divisible by 7. So, it is not a prime number.

(112x54)=?;

A. 67000

B. 70000

C. 76500

D. 77200

Answer & Explanation:

Answer: Option B

Explanation:

It is being given that (232 + 1) is completely divisible by a whole number.

Which of the following numbers is completely divisible by this number?

A. 2

16+1

B. 2

16-1

C. 7x223

D. 2

96+1

Answer & Explanation:

Answer: Option D

Explanation:

What least number must be added to 1056, so that the sum is completely

divisible by 23 ?

A. 2

B. 3

C. 18

D. 21

Answer & Explanation:

Answer: Option A

Explanation: If the number 1056 is completely divisible by 23 means,

remainder should come zero.

But if we divide 1056 by 23, the remainder is 2.

So if 2 is added to the 1056, we get remainder 0.

Therefore solution is 2

1397 x 1397 = ?

A. 1951609

B. 1981709

C. 18362619

D. 2031719

Answer & Explanation:

Answer: Option A

Explanation: 1397 x 1397 = (1397)2

= (1400 - 3)2

= (1400)2 + (3)2 - (2 x 1400 x 3)

= 1960000 + 9 - 8400

= 1960009 - 8400

= 1951609.

How many of the following numbers are divisible by 132 ?

264, 396, 462, 792, 968, 2178, 5184, 6336

A. 4

B. 5

C. 6

D. 7

Answer & Explanation:

Answer: Option A

Explanation: By using your calculator you can calculate that the following numbers are divisible by 132 : 264, 396, 792 and 6336.

Required number of number = 4.

(935421 x 625) = ?

A. 575648125

B. 584638125

C. 584649125

D. 585628125

Answer & Explanation:

Answer: Option B

Explanation:

The largest 4 digit number exactly divisible by 88 is:

A. 9944

B. 9768

C. 9988

D. 8888

Answer & Explanation:

Answer: Option A

Explanation: Divide largest four digit number 9999 by 88. You get 113.625.

Obviously 113 would be exactly divisible so we want to know what that number is.

We get this by multiplying 113 with 88 = 9944

Which of the following is a prime number ?

A. 33

B. 81

C. 93

D. 97

Answer & Explanation:

Answer: Option D

Explanation: Clearly, 97 is a prime number.

5358 x 51 = ?

A. 273258

B. 273268

C. 273348

D. 273358

Answer & Explanation:

Answer: Option A

Explanation: 5358 x 51 = 5358 x (50 + 1)

= 5358 x 50 + 5358 x 1

= 267900 + 5358

= 273258.

The sum of first five prime numbers is:

A. 11

B. 18

C. 26

D. 28

Answer & Explanation:

Answer: Option D

Explanation: Required sum = (2 + 3 + 5 + 7 + 11) = 28.

Note: 1 is not a prime number.

Definition: A prime number (or a prime) is a natural number that has exactly two distinct natural number divisors: 1 and itself.

The difference of two numbers is 1365. On dividing the larger number by the smaller, we get 6 as quotient and the 15 as remainder. What is the smaller

number ?

A. 240

B. 270

C. 295

D. 360

Answer & Explanation:

Answer: Option B

Explanation: Let the smaller number be x. Then larger number = (x +

1365).

x + 1365 = 6x + 15

5x = 1350

x = 270

Smaller number = 270.

72519 x 9999 = ?

A. 725117481

B. 674217481

C. 685126481

D. None of these

Answer & Explanation:

Answer: Option A

Explanation: 72519 x 9999 = 72519 x (10000 - 1)

= 72519 x 10000 - 72519 x 1

= 725190000 - 72519

= 725117481.

If the number 517 * 324 is completely divisible by 3, then the smallest

whole number in the place of * will be:

A. 0

B. 1

C. 2

D. None of these

Answer & Explanation:

Answer: Option C

Explanation: Sum of digits = (5 + 1 + 7 + x + 3 + 2 + 4) = (22 + x), which

must be divisible by 3.

x = 2.

The smallest 3 digit prime number is:

A. 103

B. 107

C. 113

D. None of these

Answer & Explanation:

Answer: Option D

Explanation: The smallest 3-digit number is 100, which is divisible by 2.

100 is not a prime number.

√101< 11 and 101 is not divisible by any of the prime numbers 2, 3, 5, 7,

11.

101 is a prime number.

Hence 101 is the smallest 3-digit prime number.