## Some Primes

Find the 24th, 101st and 251st prime number.

24th = 89

101st = 547

251st = 1597

## Some Fibonacci Primes

Check if the 24th, 101st and 251st prime numbers are part of the base Fibonacci number set. What is their position?

24th – yes, position 12

101st – no

251st – yes position 18

## Some Factorials

Find 100!, 171! and 250! Give all digits.

100! = 93326215443944152681699238856266700490715968264381621468592963895217599993229915608941463976156518286253697920827223758251185210916864000000000000000000000000

171! = 1241018070217667823424840524103103992616605577501693185388951803611996075221691752992751978120487585576464959501670387052809889858690710767331242032218484364310473577889968548278290754541561964852153468318044293239598173696899657235903947616152278558180061176365108428800000000000000000000000000000000000000000

250! = 3232856260909107732320814552024368470994843717673780666747942427112823747555111209488817915371028199450928507353189432926730931712808990822791030279071281921676527240189264733218041186261006832925365133678939089569935713530175040513178760077247933065402339006164825552248819436572586057399222641254832982204849137721776650641276858807153128978777672951913990844377478702589172973255150283241787320658188482062478582659808848825548800000000000000000000000000000000000000000000000000000000000000

## Calculate Hypotenuse

You are given three right angled triangles. Find the length of their hypotenuses.

1. Catheti: 3 and 4; Hypotenuse: 5
2. Catheti: 10 and 12; Hypotenuse: 15.6
3. Catheti 100 and 250; Hypotenuse: 269

## Numeral System Conversions

Convert 1234d to binary and hexadecimal numeral systems.

Binary: 10011010010

Hexadecimal: 4D2

Convert 1100101b to decimal and hexadecimal numeral systems.

Decimal: 101

Hexadecimal: 65

Convert ABChex to decimal and binary numeral systems.

Binary: 101010111100

Decimal: 2748

## Least Common Multiple

Find LCM(1234, 3456).

LCM: 2132352