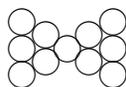# 11 Eleven XI

Corresponding ordinal: eleventh.

The number 11 is the sixth odd number, the fifth prime number, and the tenth deficient number.

The number 11 is the smallest prime $p$ such that $2^p - 1$ is not prime: $2^{11} - 1 = 2047 = 23 \times 89$. The numbers $2^2 - 1 = 3$, $2^3 - 1 = 7$, $2^5 - 1 = 31$, and $2^7 - 1 = 127$ are all primes.

The number 11 is a bow-tie number, the second or third, depending on how you count.

The number 11 is in the third pair of twin primes 11, 13.

As the sum of four or fewer squares: $11 = 1^2 + 1^2 + 3^2$.

As the sum of nine or fewer cubes: $11 = 1^3 + 1^3 + 1^3 + 2^3$.

As the difference of two squares: $11 = 6^2 - 5^2$.

The number 11 appears in only one Pythagorean triple: $[11, 60, 61]$.

As a sum of three odd primes: $11 = 3 + 3 + 5$.

The number 11 is the largest number that is not the sum of two composite numbers.

The *multiplicative persistence* of a number is the number of steps it takes to get a single digit if you repeatedly multiply the digits. For example, starting with 77 you get successively 49, 36, 18, 8, so the multiplicative persistence of 77 is 4. The largest known multiplicative persistence is 11. It is achieved by the number 277777788888899.

There are 11 different times when the hour and minute hands on a clock are pointing in the same direction.

The eleventh President of the United States was James Knox Polk.

The eleventh state to enter the Union was New York.

The eleventh largest state in the United States is Michigan.

The number 11 is the second number of the crap shooters call, "7 come 11." Those two sums on the first roll of the dice pay off handsomely. On a single roll of a pair of dice,

the chance of getting a sum of 11 is one out of eighteen. The chance of getting a 7 or 11 is 2 out of 9.

There are 11 players on a football team.

The World Trade Center was destroyed on the 11th day of September, 2001.

World War I ended at 11 A.M. on the 11th day of the 11th month.

The Susan B. Anthony dollar coin has an 11-sided polygon as a border, to commemorate the Apollo 11 moon landing.

BUT THE MOST INTERESTING FACT IS THAT HADASSAH IS 11 YEARS OLD!