

Just a few Fibonacci number facts.....

The sum of any consecutive 10 Fibonacci numbers is divisible by 11.

Every 3rd Fibonacci number is divisible by 2.

Every 4th Fibonacci number is divisible by 3.

Every 5th Fibonacci number is divisible by 5.

Every 6th Fibonacci number is divisible by 8.

Every 7th Fibonacci number is divisible by 13.

Etc.

Take any 4 consecutive Fibonacci numbers. Square the two middle ones. Subtract the smaller square from the larger square. The answer will be the product of the first and last Fibonacci numbers in the quartet.

Take any three consecutive Fibonacci numbers. The product of the 1st and 3rd will be one away from the square of the middle one.

$$1^2 + 1^2 = 1 \times 2$$

$$1^2 + 1^2 + 2^2 = 2 \times 3$$

$$1^2 + 1^2 + 2^2 + 3^2 = 3 \times 5$$

$$1^2 + 1^2 + 2^2 + 3^2 + 5^2 = 5 \times 8$$

et cetera