Maths Homework 27th June 2025

Fibonacci Sequence

Maths Vocabulary:

- sum (the total of the numbers added together)
- product: The total when numbers are multiplied together
- squared numbers means a number multiplied by itself the square of 6 is 6x6+36

Leornado Fibonacci (1170-1230) was an Italian Mathematician who was famous for investigating this sequence.

1 1 2 3 5 8 13 21 34 55 89 144...

- 1. What is the pattern?
- 4. Choose a number from the sequence and find the product reason means multiply means to be concerned in the sequence and find the product reason means multiply and the sequence and find the product reason means multiply and the sequence and find the product reason means multiply and the sequence and find the product reason means and the sequence and find the product reason means and the sequence and find the product reason means and the sequence and find the product reason means and the sequence and find the product reason means and the sequence and find the product reason means and the sequence and find the product reason means and the sequence and find the sequence and th

Now find the square of your number, E.g. 89x89=7921

Iny 5 more numbers, showing your working out. What do you notice?

Do you always get the same sort of answer?

3. Investigate the following patterns (the sum means the total when the numbers are added together). Are they true?

The sum of the first 3 numbers is one less than the 5^{th} .



The sum of the first 4 numbers is one less than the 6^{th} . The sum of the first 5 numbers is one less than the 7^{th} .

Can you notice a pattern? What do you notice?

4. Choose a number from the sequence and find the product (this means multiply them) of the numbers on either side of it.

Eg. 89: 55x144=7920

Now find the square of your number. E.g. 89x89=7921

Try 5 more numbers, showing your working out. What do you notice?

Do you always get the same sort of answer?

Are they true?

