

Monster Maths! Patterns with Prime Numbers

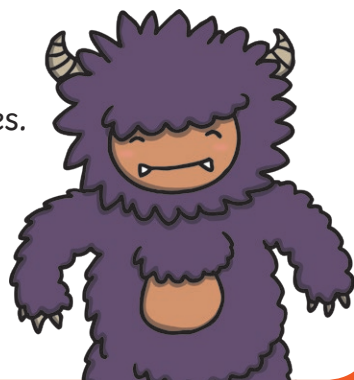
Choose a number greater than 1.

Double it.

Can you find a prime number in between your first number and its double?

Is this always true?

Try some other numbers and their doubles.



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Choose 2 prime numbers between 5 and 30.

Add them together.

Repeat 5 times.

What do you notice about all of your answers?

Can you explain why?

$$3 + 17 =$$



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Every number greater than 5 can be written as the sum of three prime numbers.

Can you test this theory?

$$27 = 13 + 7 + 7$$



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Goldbach's Conjecture

Every even number greater than 2 is the sum of two prime numbers.

Can you test this theory?

$$8 = 3 + 5$$

$$14 = 11 + 3$$

