

Max's Prime Number Discovery Challenge

Learning objective: To identify, define, and recall prime numbers up to 100 as per the Year 5 curriculum.

Read the front of each flashcard and try to answer Max the Monkey's maths challenge. Flip the card to check if you are correct!

What is the definition of a prime number?

A prime number is a whole number greater than 1 that has only two factors: 1 and itself.

Is the number 1 a prime number?

No, 1 is not a prime number because it only has one factor (itself).

What is the only even prime number?

2 is the only even prime number.

Is 7 a prime number? Why?

Yes, because its only factors are 1 and 7.

Is 9 a prime number? Why?

No, because it has factors 1, 3, and 9.

List all the prime numbers between 1 and 10.

2, 3, 5, 7.

Is 15 a prime number? Why?

No, because 3 and 5 are also factors ($3 \times 5 = 15$).

True or False: All prime numbers are odd.

False, because 2 is a prime number and it is even.

Which of these is a prime number: 11, 12, or 14?

11 is the prime number.

What do we call a number that has more than two factors?

A composite number.

Max bought 13 apples. Is 13 a prime number?

Yes, 13 is a prime number.

Is 21 a prime number?

No, because 3 and 7 are factors ($3 \times 7 = 21$).