

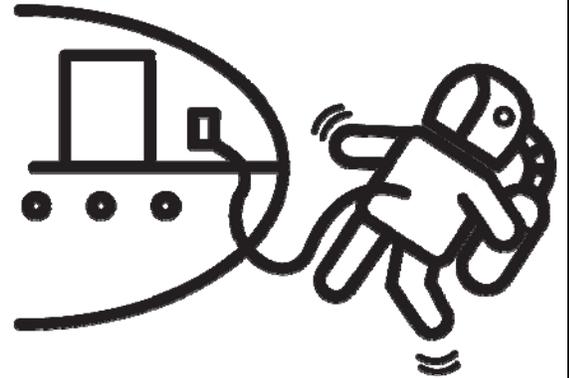
Name _____

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Prime and Composite Numbers Step By Step Lesson

Label the following numbers as prime or composite:

14, 37, 55, 74, 83



Explanation

In math, factors are numbers that can be multiplied together to result in another number.

Factor • Factor = Resulting Number

Prime numbers are resulting numbers that only have two factors (itself and 1). **For example: 3, 11 are all Prime Numbers**

The only factors of 3 are 1 and 3. The only factors of 11 are 1 and 11.

Composite numbers are resulting numbers that have more than two factors. For example 22 (factors: 1, 2, 11)

General rule: All prime numbers are odd except for 2.

Let's label the values (prime/composite) they give us: 14, 37, 55, 74, 83

Step 1- Find the even numbers that are not "2".

14 and 74 are composite because they are even and not "2".

Step 2- List all the factors of the remaining values. Values with more than 2 factors are composite.

Factors of 37 = 1 and 37 (37 is therefore prime)

Factors of 55 = 1, 5, 11, 55 (55 is therefore composite)

Factors of 83 = 1 and 83 (83 is therefore prime)

Prime = 37, 83 Composite = 14, 55, 74