Factors, Multiples, and Prime Numbers

Today's Standard

4.OA.B4 - Find all factor pairs for a whole number in the range 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1-100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1-100 is prime or composite.

Real-World Applications for this Standard

Identifying common factors in a set of objects; Determining the number of teams that can be formed from a group of students; Finding the prime factors of numbers in daily life, such as product codes or serial numbers; Using multiples to solve problems involving repeated measures, such as packaging or tiling

Today I Learned

Today, we learned about factors, multiples, and prime numbers. We practiced finding pairs of numbers that multiply to give another number and learned how to tell if a number is prime or composite.

Common Stumbling Blocks

Some kids might think a number can have only one factor pair, but that's not true. Also, some might mix up prime numbers with odd numbers. Prime numbers have only two factors: 1 and themselves.

Quiz Me

- What is a factor?
- What is a multiple?
- Can you give an example of a prime number?
- How can you find factor pairs?
- What is a composite number?

Help Me

A factor is a number that can divide another number without leaving a remainder. For example, 2 is a factor of 8 because 8 divided by 2 equals 4 with no remainder. Multiples are numbers you get when you multiply a number by whole numbers, like 3, 6, 9, and so on for 3. Prime numbers are special because they can only be divided by 1 and themselves, like 2, 3, 5, and 7. You can use these ideas to solve problems, like figuring out

how many chairs you can fit in rows for a party.