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.

Cues	Notes
What is a factor?	A factor is a number that divides another number without leaving a remainder.
What is a multiple?	A multiple is the product of a number and any whole number.
What is a prime number?	A prime number is a number greater than 1 that has no positive divisors other than 1 and itself.
How to find factor pairs?	To find factor pairs, list all pairs of numbers that multiply to give the original number.
Examples of real-world applications	Factors and multiples can be used in real-life scenarios such as dividing objects into groups, creating patterns, and solving problems involving repeated measures.

Summary

Understanding factors, multiples, and prime numbers helps students solve a variety of mathematical problems and prepares them for more advanced concepts like GCF and LCM.