

Grade 6 - N03 within Unit 3: Factors, Multiples, Prime and Composite Numbers, and Order of Operations (Application of Partitioning)

N03 Students will be expected to demonstrate an understanding of factors and multiples by:

- determining multiples and factors of numbers less than 100
- identifying prime and composite numbers
- solving problems using multiples and factors [PS, R, V]

Performance Indicators

N03.01 Identify multiples for a given number and explain the strategy used to identify them.

N03.02 Determine all the whole number factors of a given number using arrays.

N03.03 Identify the factors for a given number and explain the strategy used (e.g., concrete or visual representations, repeated division by prime numbers, or factor trees).

N03.04 Provide an example of a prime number, and explain why it is a prime number.

N03.05 Provide an example of a composite number, and explain why it is a composite number.

N03.06 Sort a given set of numbers as prime and composite.

N03.07 Solve a given problem involving factors or multiples.

N03.08 Explain why 0 and 1 are neither prime nor composite.

Limited	Developing	Competent	In-Depth
Student can skip count and/or model a personal strategy to identify multiples (ex. using a hundreds chart) for some numbers. Student can create an array to identify factors of some numbers less than 100.	Student can model a personal strategy to identify multiples for a given number less than 100 (ex. hundreds chart). Student can model factors for a given number and show the personal strategy used (e.g., concrete or visual representations, repeated division by prime numbers, or factor trees). Student can provide examples of prime or composite numbers.	Student can identify multiples for a given number and explain the personal strategy used to identify them. Student can identify the factors for a given number and can explain the personal strategy used (see p.233-237 in the curriculum document). Student can provide and explain examples and non-examples (0 and 1) of prime numbers, and explain why they are prime numbers. Student can sort a given set of numbers as prime and composite. Student can solve a given problem involving factors or multiples less than 100.	Student can identify multiples and factors for a given number using a variety of efficient personal strategies and justify the strategies used. Student can create and solve a variety of problems involving factors or multiples.