N002: Recognizing fractional units as equal divisions of one whole unit
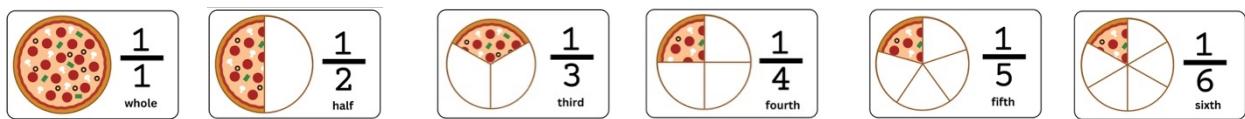
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Textbook Content: Definition of fractional units (1/2, 1/3, 1/4, etc.). Visual representation of whole chikki divided into equal parts showing different fractional units. Understanding that equal divisions create same-sized fractional units regardless of shape.

Learning Goal: Students can identify and create fractional units by dividing wholes into equal parts.

Explanation:

A unit fraction is what you get when you take exactly ONE piece from something that's been divided into equal parts. The top number is always 1, and the bottom number tells you how many equal pieces the whole thing was cut into. Think of it as "one piece out of however many pieces total."

Real-World Connection

When you eat 1 slice from an 86-slice pizza, you ate 1/6 *(one by sixth)* of the pizza. Unit fractions are everywhere because we constantly take "one piece" of things.

What then are fractional units?

A unit fraction has numerator 1 and represents one equal part of a whole. Unit fractions are the building blocks of all fractions. Any fraction can be understood as multiple unit fractions added together. For example, 3/7 means three copies of the unit fraction 1/7.

Image Ideas:

- Mathematical notation showing: 3/7 = 1/7 + 1/7 + 1/7
- Building blocks diagram showing unit fractions (1/7) stacking to make larger fractions (3/7)

Quick Trick

Unit fractions always have "1 on top, something below."

Remember: "One on top means unit shop!"