

Operations

M4N7 Students will explain and use properties of the four arithmetic operations to solve and check problems.

- Describe situations in which the four operations are used and the relationships among them.
- Compute using the order of operations, including parentheses.
- Compute using the commutative, associative, and distributive properties.
- Use mental math and estimation strategies to compute.

M4N4 Students will further develop their understanding of division of whole numbers and divide in problem-solving situations without calculators.

- Understand the relationship between dividend, divisor, quotient, and remainder.

sum: answer to an addition problem

$$\text{addend} + \text{addend} = \text{sum}$$

addend: numbers that are added together

difference: answer to a subtraction problem

product: answer to a multiplication problem

$$\text{factor} \times \text{factor} = \text{product}$$

factor: numbers that are multiplied

quotient: answer to a division problem

$$\text{dividend} \div \text{divisor} = \text{quotient}$$

Example: $45 \div 5 = 9$, **9** is the quotient

dividend: the number that another number is divided into

Example: $45 \div 5 = 9$, **45** is the dividend

divisor: the number that another number is divided by

Example: $45 \div 5 = 9$, **5** is the divisor

remainder: the portion that will not make a complete group

Example: $21 \div 5 = 4 \text{ R}1$, **1** is the remainder