Grade 7 Equation Word Problems: Define the Variable First

Original tasks 1, 2 / independent work

Task 1

A rope is cut into two pieces. One piece is 3 feet longer than the other, and the total length is 15 feet. Define the variable, write an equation, and find the length of each piece.

Task 2

A class buys pencils that cost 2 dollars each and pays a 5-dollar delivery fee. The total cost is 21 dollars. Define the variable, write an equation, and find the number of pencils.

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Original tasks 3, 4 / independent work

Task 3

A number is multiplied by 3, then 4 is subtracted. The result is 20. Define the variable, write an equation, and find the number.

Task 4

A rectangle has a length that is 2 meters more than its width. The perimeter is 20 meters. Define the variable, write an equation, and find the width and length.