3.10: Solving Problems (Day 2)

Examples

Solve each of the following word problems. Include *"let statements"* to define unknown variables.

1. The length of a rectangle is 5 m more than its width. Its perimeter is 90 m. What are its dimensions?

5. The sum of 3 consecutive whole numbers is 105. Find the numbers.

11. John has $11.95 made up of dimes and quarters. If he has 58 coins in all, how many quarters are there?

21. Don is three times as old as David and the sum of their ages is 52. Find their ages.

1. Define variables (let x represent the SMALLER variable where possible).

2. Write an equation with the variables and information from the word problem (remember the value of coins).

3. Solve the equation for the variable.

4. Find the value of all quantities in the word problem.

5. Conclude with a therefore statement.

Homework: p.295 #11-13 p.326 #4-10