Mathematics 9 **Equation Solving** Solving Word Problems Part 2

Last class we looked at solving simple number problems. Today we will look at solving for multiple items.

Solving Multi-Item Word Problems

- 1. Establish what items you are working with or need to find.
- 2. Write "let" statements for each item. Use a simple variable to represent the item you know the least about. Write the other items in terms of this first one.
- 3. Use the "let" statements to help create the equation.
- 4. Solve the equation using correct algebra.
- 5. Remember to answer the question in a short sentence. Make sure to include the correct units where necessary.

A. Multi-Item Word Problems

1) Kathy has nine more oatmeal cookies than chocolate chip cookies. If she has 39 cookies in total, how many of each type does she have?

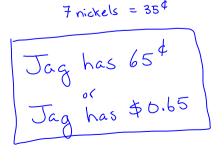
There are 15 chocolate chip workies and 24 oatmeal workies

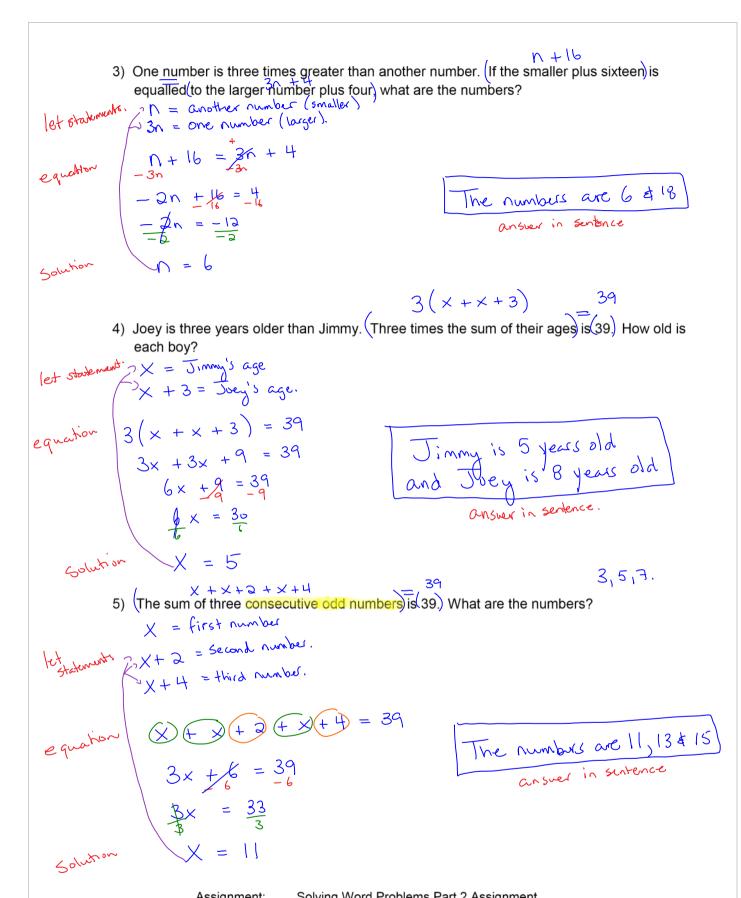
Answer in sentence.

2) Jag has two less than three times as many nickels as dimes. If he has ten coins in total, what is the total value of the money he has?

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Assignment: Solving Word Problems Part 2 Assignment

Name:

Solving Word Problems Part 2 Assignment

Solve the following. Make sure to include let statements, equation, solution and answer in sentence.

1.	Two times a number decreased by seven is (-25). What is the number?
2.	Mary is three years older than Molly? If you add their ages together the result is 33. How old is each girl?
	One number is six times larger than another number. If you subtract the smaller number from the larger number the result is 20. What is the numbers?

4.	Four consecutive numbers have a total of 38. What are the numbers?
	5. Gary is seven years older than Mike. The sum of their ages is fifty-seven. How old is each person?
	Laka Cara is six tissas as desperal also Miles at 18th a difference in their deaths in 45 as
	Lake Corn is six times as deep as Lake Wilson. If the difference in their depths is 45 m deep is each lake?

	Three times the sum of a number and two is equaled to 42. Find the number.
8.	Dana is collecting red and blue smarties. She has two less than three times as many
	red ones as blue ones. If the total number of smarties is 42. How many of
	each colour does she have?
9.	John has three less than twice as many vampire books as werewolf books. If he has a t
	of 21 books, how many of each type does he have?

10.	A piggy bank has a ten coins in it. If there are two-thirds as many quarters as nickels, what is the total value of money in the bank?
11	One number is three less than one-half of another number. If the sum of the numbers
	what is the numbers?
12	Three consecutive even numbers has a total of 36. What are the numbers?
12.	Three consecutive even numbers has a total of 50. What are the numbers:
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Answers

- 1) Number is -9 2) Molly is 15
- 3) Numbers are 24 & 4 4) Numbers are 8, 9, 10 & 11

Mary is 18

- 5) Mike is 25 Gary is 32 Gorn lake is 9 m Corn lake is 54 m
- 7) Number is 12 8) 11 blue smarties 31 red smarties
- 9) 8 Werewolf books 10) Total Value is \$1.30 13 Vampire books
- 11) Number are 20 & 7 12) Number are 10, 12, & 14