## Word Problems

Let's move onto another type of problem: a problem with lots of words and numbers. You may not know where to start, and that's okay. Modeling can help you!

Suppose you are given the following word problem:
Zoe and Meg really like basketball. Meg has 8 basketballs, and Zoe has 5 basketballs. How many basketballs do they have total?


We want to solve this problem by modeling it. Let's see how someone might think about this problem.
1)
2)

3)

I don't know what $t$ is, but I do know Zoe's basketballs added to Meg's basketballs equals $t$.



What steps did this student go through to solve this problem?

1. Read the entire problem and make sure you understand the situation.
2. Define: Decide what you're trying to find and define a variable.
3. Draw the model for the situation. You will need to decide what parts are equal.
4. Solve: Use the model and your tools of addition, subtraction, multiplication, and division to solve the problem.
5. Check if your answer makes sense. If it does not, go back and find your mistake.
6. Write and box your answer. Don't forget the units!
