Words and Symbols

Let's use symbols to represent words in a math problem.

2.1 Math Talk: Perceiving Percents

Evaluate mentally:

- 50% of 80
- 75% of 80
- 1% of 80
- 7.5% of 80

2.2 Identify and Represent

For each problem, identify any important quantities. If it's a known quantity, write the number and a short description of what it represents. If it's an unknown quantity, assign a variable to represent it, and write a short description of what that variable represents.

1. Clare is in charge of getting supplies for a road trip with her friends and her dog. She has $35 to spend on supplies at the store. The supplies for herself and her friends cost $3.25 each, and her dog's supplies cost $9 each.

2. Tyler is packing his bags for vacation. He plans to pack two outfits for each day of vacation.

3. Mai's teacher orders tickets to the local carnival for herself, the entire class, and 3 more chaperones. Student tickets are $4.50.

4. Jada wants to prepare the fabric for the bridesmaids' dresses she is creating for a wedding party. She plans to use about 16 square feet of fabric on each dress.

5. Elena is going to mow lawns for the summer to make some extra money. She will charge $20 for every lawn she mows and plans on mowing several lawns each week.

2.3 Card Sort: Matching Expressions

Your teacher will give you a set of cards. Take turns with your partner to match a situation with an algebraic expression. Some cards do not have matches. Use the blank cards to create your own expression or situation so that all cards have a correct match.

1. For each match that you find, explain to your partner how you know it's a match.
2. For each match that your partner finds, listen carefully to the explanation. If you disagree, discuss your thinking and work to reach an agreement.