1.Watch out for Parentheses

6.EE.A

Evaluate the following numerical expressions.

1. 2(5+(3)(2)+4)
2. 2((5+3)(2+4))
3. 2(5+3(2+4))

Can the parentheses in any of these expressions be removed without changing the value the expression?

2.Distance to School

6.EE.3

Some of the students at Kahlo Middle School like to ride their bikes to and from school. They always ride unless it rains.

Let *d* be the distance in miles from a student's home to the school. Write two different expressions that represent how far a student travels by bike in a four week period if there is one rainy day each week.

3.Firefighter Allocation

6.EE.6, 7

A town's total allocation for firefighter's wages and beneﬁts in a new budget is $600,000. If wages are calculated at $40,000 per firefighter and beneﬁts at $20,000 per firefighter, write an equation whose solution is the number of firefighters the town can employ if they spend their whole budget. Solve the equation.