Title: Adding three whole numbers

Subject: Math

Grade: 1

Time: 30 minutes

Overview: Students use simple drawings to solve math word problems with three numbers by finding ten and adding on.

Standards:

1. 1.OA.8 Determine the unknown whole number in an addition or subtraction equation relating to three whole numbers.
2. 1.OA.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

Objective: Solve word problems with three addends, two of which make ten.

Materials:

three different kinds of blocks/pattern blocks, 18-inch length of string tied to form a loop, pattern blocks for students, personal white boards

Procedure for Activity:

Students sit on carpet. Teacher presents three different shapes. The teacher lays our 9 triangle blocks in a 5-group configuration. Teacher asks, how many triangle blocks do we have? The teacher lays out 1 square block and 4 trapezoid blocks. Ask the students to state the quantities of each group. Ask the students to write an equation for the blocks.

Teacher tells students to talk to their partners to see some ways we could add the blocks together.

Teacher guides students to make a group of ten. Teacher moves the square blocks with the triangle blocks to make a group of 10. We have ten and four more. Altogether we have 14.

Students write the equations on their white boards.

Students practice story problems on their white boards.

Students work together or alone to solve problems.

High Ceiling extension: Students who are understanding the concept quickly, work independently to solve problems. When they are finished they will write their own 3 addend word problems with a partner. They then solve their classmates’ word problems.

Closure: Student debrief of learning. Guide students in a discussion about solving the math problems and the strategies they used.