

# Master 43: Activity 19 Assessment

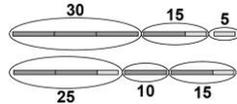
## Exploring Number Sentences for Larger Numbers

### Finding Equivalent addition and Subtraction Expressions Behaviours/Strategies

1. Student chooses 3 random numbers and adds them together to see if they equal 50.

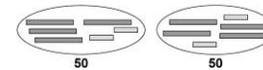
“How can I make 50 with 3 bean bag tosses? That’s hard.”

2. Student models the tosses concretely, lining up concrete models end to end to prove equality, but doesn’t write related number sentences.



“They both have the same length.”

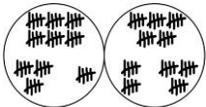
3. Student models the tosses concretely and uses the values to prove equality, but has difficulty writing the related number sentences.



“They’re both 50, so they are the same.”

### Observations/Documentation

4. Student models the tosses pictorially and proves equality, but doesn’t write related number sentences or see equivalent expressions.



“They’re both 50.”

5. Student writes number sentences to show the total scores, then compares the sums to prove equality.

$$30 + 15 + 5 = 50$$

$$25 + 10 + 15 = 50$$

“Since both add to 50,  
I know that  
 $30 + 15 + 5 = 25 + 10 + 15.$ ”

6. Student writes number sentences to show the total scores and uses reasoning to prove equality.

$$\begin{array}{r} -5 \quad +5 \\ 30 + 15 + 5 = 25 + 10 + 15 \end{array}$$

“It’s like 5 is taken away from 30 and given to 5.”

### Observations/Documentation