Sweet Algebra

Part 1: How many Jolly Ranchers are in each bag?

Candy Clues: Write an algebraic expression for each clue.

_____ The teacher has *x* amount of Jolly Ranchers in his/her bag.

_____ Bag #1 contains four more than twice the number of Jolly Ranchers in the teacher's bag

_____ Bag #2 contains three times the number of Jolly Ranchers in the teacher's bag

_____ Bag #3 contains 10 more Jolly Ranchers than the teacher's bag

_____ Bag #4 has 5 less than 4 times the number of Jolly Ranchers as the teacher

_____ Bag #5 has half as many Jolly Ranchers as Bag #1

_____ Bag #6 has $\frac{1}{6}$ the number of Jolly Ranchers in Bag #2

_____ Bag #7 has one more than three times the number of Jolly Ranchers in the teacher's bag

_____ Bag #8 contains four less Jolly Ranchers than Bag #3

_____ Bag #9 has twice the sum of the amount of Jolly Ranchers in the teacher's bag and four

_____ Bag #10 has four less than three times the number of Jolly Ranchers in the teacher's bag

Part 2: How many Jolly Ranchers are in the teacher's bag?

Edible Equations: Write at least three algebraic equations that you can use to find the number of Jolly Ranchers in the teacher's bag using the clues below.

The total pieces of candy in Bags #3, #5, and #9 is 44.

The total pieces of candy in Bags #2, #4, and #8 is 49.

The difference in Bag #7 and Bag #1 is 3.

Bag #7 and Bag #4 have the same number of Jolly Ranchers.

Bag #9 has one more jolly rancher than Bag #4

Solve two equations to find the number of Jolly Ranchers in the teacher's bag.

Which bag would you want? Explain why.