

Math 210 - Dr. Miller - Activity #4-A: Working Backwards

The following problem can be solved using a variety of strategies, including guess and check or writing an equation. For this activity, however, your group must solve it strictly by *working backwards*. Show clear work and - if time permits - write a few sentences explaining your steps. (The syllabus is clear that work and explanation are expected in this course and describes these criteria more fully - read it!)

Kathy went shopping in Cranberry and spent half of her money at Barnes and Noble, another \$10 at Target, and then got a \$15 refund from Walmart. Later that night, she was organizing her weekly finances and couldn't remember whether she'd already given herself that week's spending-money allowance because she couldn't recall just how much cash she'd started with. She counted that she currently had \$31 in her wallet. How much did she actually start with?

Math 210 - Dr. Miller - Activity #4-B: Working Backwards with a Twist

Work together to solve this problem using a work backward diagram and then any method you prefer to address the fraction issue at the end. Label clearly and write legibly.

Kathy went shopping in Cranberry and spent one third of her money at Barnes and Noble, another \$10 at Target, and then got a \$15 refund from Walmart. Ending up with \$31, how much did she start with?