Problem Solving: Work Backward

Solve each problem by working backwards.

1. Colleen bought 6 yards of material and a bag of buttons. She spent a total of $28. The buttons cost $2.50. How much was each yard of material?

2. Paul cut a pole into 5 equal parts. He then cut 3.7 inches off the last piece. The length of the part left was 2.3 inches. How long was the original pole?

3. Mr. Quibley takes his fourth-grade class to the planetarium. The cost for him and his students is $93.75. If the cost of an adult ticket is $7.50 and the cost of a student ticket is $3.75, how many students are in Mr. Quibley’s class?

4. Shaun bought 6 pizzas and 3 salads for $95.49. Each salad cost $5.85. What is the cost of each pizza?

5. A steak dinner with an appetizer and a dessert costs $19.95 at a local restaurant. If the appetizer costs twice as much as the desert and the desert costs $2.50, how much does the steak cost?

6. Nadia has $17.67 in her piggy bank. That is $1.17 more than twice the amount of money in her brother Ivan’s piggy bank. How much does Ivan have in his bank?