The King and His Rubies

A king decided to share his collection of precious rubies with his three daughters. He gave his oldest daughter, Clara, 20% of the rubies. He gave Harriet, his middle daughter, 25% of those that were left. He gave his youngest daughter, Melissa, 30% of the remaining rubies. After each daughter had received her share, the king saw that there were 21 rubies left in his collection.

- How many rubies did the king have in his collection to begin with?

- How many did each daughter receive?

- Explain how you solved this problem. What problem-solving method did you use?