

Courtney's Collection Part I

Courtney visited her grandmother. Her grandmother used to collect stamps. She had a shoebox full of 5 cent, 6 cent and 7 cent stamps. Courtney thought, "I could mail a lot of different-sized letters and postcards with these stamps." She tried to figure out the different amount of postage she could make with a combination of those stamps. What totals could she make and what totals are impossible? Explain how you found your solution. How do you know your solution is correct?

*****Be sure to organize your work, for instance make a table of possible totals starting with 1¢*****

Courtney's Collection Part II

A. Reminder that Courtney's grandmother had 5 cent, 6 cent and 7 cent stamps in her box.

Grandmother said, "Your grandpa has different shoeboxes with other stamps. His shoebox has just 4 cent, 6 cent and 8 cent stamps. Which totals can you make with these stamps and what totals are impossible?" Explain how you found your solution. How do you know your solution is correct?

***Be sure to organize your work

B. Explore a new set of 3 stamps with different values. What are your findings? Summarize any patterns you noticed or any generalizations you can make.