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Postal Puzzles

Pre-Activity:

Your classmate is holding a letter that has two stamps on it. She says that each stamp might be either a 4-cent stamp or a 7-cent stamp.

a. What is the largest amount of postage that might be on the letter?

b. What is the smallest amount of postage that might be on the letter?

c. Are there any other amounts of postage that might be on the letter?

In the imaginary country of Philalia, the only kinds of stamps are ones that cost 3 tekos and ones that cost 5 tekos. In Philalia, every item mailed must have **exactly** 4 stamps on it.

1. Write one possible combination of stamps you could use in Philalia. What is its total cost?

2. What is the least amount it could cost to send something in Philalia?

3. What is the greatest amount it could cost?

4. Write all the possible ways you can combine stamps. How much does each combination cost?