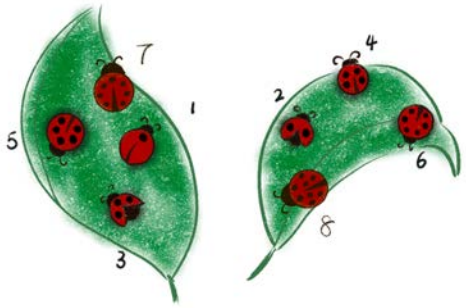
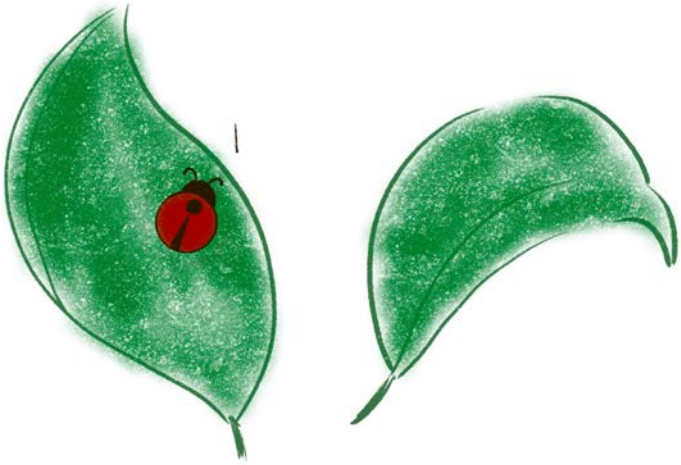
Puzzle of the Week
Ladybugs that don't Multiply

Numbered ladybugs are landing on two leaves. The rule is that no two ladybugs on a leaf can multiply to be the number of another ladybug on that leaf. The leaf on the left is fine, but the leaf on the right has 2 x 4 = 8.



THE CHALLENGE: Starting at 1 and counting up, how high can you go putting the numbered ladybugs on either of the two leaves while following the rule for each of the leaves.



EXPLORATION: What are large sets of (not necessarily consecutive) numbers that are allowable to have on a single leaf? How much higher can you go with consecutive numbers if you use more than two leaves?