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Are there really 256 ways to personalize a Wendy’s hamburger?

1. **Is that number to low or too high?**
2. **How many different ways do you think there is to personalize a Wendy’s hamburger?**
3. **List out the different toppings to put on your hamburger at Wendy’s:**
4. **To calculate, we will use either permutation or combination. Which one should we use? Why?**
5. **What is the formula for combination?**
6. **What is the formula for permutation?**
7. **Calculate!**

**There are \_\_\_\_\_\_\_ ways to personalize a Wendy’s hamburger!**

1. **The number of ways to personalize that you found is for a single patty burger. How could we find the number of ways to personalize for a single, double, or triple stack?**
2. **Calculate the number of ways to personalize a Wendy’s single, double, and triple stack.**

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3. **Now that you have discovered that the bag was incorrect, write a letter to Wendy’s Consumer Relations Department discussing what you have calculated. Your letter will address to Wendy’s Consumer Relations Department.**

**1st Paragraph: Introduce yourself and the assignment.**

**2nd Paragraph: Discuss why you used combination and not permutation to solve the problem.**

**3rd Paragraph: Discuss the math that you used and re-write each step that you used and how many combinations really are there!**

**4th Paragraph: Close it up! Tie up lose ends and state that you would like to see the bags changed.**

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**Wendy’s Contact Information**

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