Algebra Review #1

Part A

Melanie is buying professional outfits for her new job. She has $300 budgeted to spend on the new outfits. Pants cost $25 each, skirts cost $32 each, and blouses cost $28 each. Sales tax in Indiana where she plans to purchase the outfits is 8%.

1. Define the variables.

2. Write the inequality (greater than, less than, greater than or equal to, less than or equal to) to find her budget.

Part B

She plans to purchase at least three pairs of pants, at least two skirts, and at least five blouses. She wants to use various combinations of pants, skirts, and blouses to make her outfits to wear for each day of the week.

3. Can Melanie make her purchase and stay within her budget? Use words, numbers, and/or symbols to justify your answer.