$\underline{\text { Math } 310 \text { - Dr. Miller - Activity \#12: Analyzing Discount/Mark-Up Problems }}$
Determine whether each computation is appropriate in the situations below. Justify your choices, but do NOT actually solve the problems.

1. A problem reads "Carrie makes $\$ 28,500$ and has been promised a $3.25 \%$ raise next year. What will she be earning then?" Is it appropriate to take $3.25 \%$ of $\$ 28,500$ and add that to $\$ 28,500$ to answer the question? Why/why not?
2. A problem reads "A glacier's been shrinking by $5.6 \%$ per year. If it's 2500 meters long right now, how long was it last year?" Is it appropriate to take $5.6 \%$ of 2500 and subtract that from 2500 to answer the question? Why/why not?
3. A problem reads "My hotel bill was $\$ 112.38$ per night, including an $11.5 \%$ occupancy tax. What was the room rate?" Is it appropriate to take $11.5 \%$ of $\$ 112.38$ and subtract that from $\$ 112.38$ to answer the question? Why/why not?
