Identify independent and dependent variables

1. Adam is a Scientist. He studies the impact of a drug on cancer.
   - \( a \) = administration of the drug - the dosage and the timing.
   - \( d \) = the impact the drug has on cancer.
   Which of the variables is dependent and which is independent?
   - [ ] \( d \) is the independent variable and \( a \) is the dependent variable
   - [ ] \( a \) is the independent variable and \( d \) is the dependent variable

2. Lilian works in a papertowel company. She has been assigned the task to compare brands of paper towels to see which holds the most liquid.
   - \( b \) = brand of paper towel.
   - \( a \) = the amount of liquid absorbed by a paper towel.
   Which of the variables is dependent and which is independent?
   - [ ] \( a \) is the dependent variable and \( b \) is the independent variable
   - [ ] \( a \) is the independent variable and \( b \) is the dependent variable

3. Vivian is a baker. She calculates the cost of an iced vanilla cake according to its weight
   - \( c \) = the cake’s cost
   - \( t \) = the cake’s weight
   Which of the variables is dependent and which is independent?
   - [ ] \( t \) is the dependent variable and \( c \) is the independent variable
   - [ ] \( t \) is the independent variable and \( c \) is the dependent variable
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