Lurking Variables

For questions #1 and #2, follow the directions given.

1.



Can you suggest another variable that is linked to life expectancy and the availability of doctors (and televisions) which explains the association between the life expectancy and the availability of doctors (and televisions)? We call this type of variable a *lurking variable*.

For each of the scenarios described below, list at least one possible lurking variable.

3. FIRE DAMAGE AND FIRE TRUCKS

The amount of damage at the scene of a fire has a positive correlation with the number of fire trucks on the scene.

4. BUNDLED-UP BABIES AND OUTDOOR TEMPERATURE The age at which a baby first learns to crawl has a negative correlation with outdoor temperature.

DANGEROUS ICE CREAM AND DROWNINGS
The number of ice cream servings consumed has a positive correlation with the number of drownings.

6. CAR COST AND GAS MILEAGE

In 2005, there was a negative correlation between car cost and gas mileage.

FOOT SIZE AND READING ABILITY
Foot size and reading ability have a positive correlation.