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## Stats / Identifying correlation and causation

### Identifying correlation and causation

Answer the questions below.

If two things correlate may or may not causation

|     |   |
|-----|---|
| (a) | <p><b>A car dealership conducted a survey. It showed that a younger customer tended to purchase a lower priced car. What is likely true?</b></p> <p><input type="radio"/> There is no correlation between age and purchase price.</p> <p><input checked="" type="radio"/> There is a correlation between age and purchase price. There may or may not be causation. Further studies would have to be done to determine this.</p> <p><input type="radio"/> There is a correlation between age and purchase price. There is probably also causation. This is because there is a decrease in the purchase price with a decrease in age.</p>  |
| (b) | <p><b>A doctor's office found that a lower outside temperature did not indicate a change in the number of appointments made. What can we determine from this information?</b></p> <p><input checked="" type="radio"/> There is no correlation between outside temperature and number of appointments made.</p> <p><input type="radio"/> There is a correlation between outside temperature and number of appointments made. However, there is no causation. This is because there is likely an increase in the number of appointments made with a decrease in the temperature outside.</p> <p><input type="radio"/> There is a correlation between outside temperature and number of appointments made. There may or may not be causation. Further studies would have to be done to determine this.</p>   |
| (c) | <p><b>A piano instructor examined student progress. He noticed that when students spend less time playing video games, their memorization ability does not tend to change. What can he conclude?</b></p> <p><input checked="" type="radio"/> There is no correlation between amount of time spent playing video games and memorization ability.</p> <p><input type="radio"/> There is a correlation between amount of time spent playing video games and memorization ability. There is probably also causation. This is because there is an increase in memorization ability with a decrease in the amount of time spent playing video games.</p> <p><input type="radio"/> There is a correlation between amount of time spent playing video games and memorization ability. There may or may not be causation. Further studies would have to be done to determine this.</p> |

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