

Conditional Probability Worksheet 5

In problems 1-5, identify two ways to group a sample (labels for a two-way frequency table) that could answer the question you are given.

1. Do third grade girls prefer chocolate or vanilla pudding when compared to boys?
2. Do kiwi birds live longer than sea turtles?
3. Do guavas prefer to have rubber bands, paper clips, or paint balls shot at them?
4. Is there a relationship between high school students that score well in math and those who brush their teeth twice daily?
5. Is there a relationship between people who snore at night and people who enjoy strawberry shortcake?

In problems 6-10, given two-way frequency table groupings, identify a method to answer the question asked. Answers are not necessarily unique.

6. Group 1: Mangos, carrots, pickles.
Group 2: driver's license has been

suspended, driver's license never suspended. Are people who prefer carrots better drivers than those who prefer mangos or pickles?

7. Group 1: Vanilla (V), chocolate (C), tapioca (T). Group 2: prefers Mac (M), prefers PC (PC). Is there a relationship between people who prefer PCs and people who prefer chocolate ice cream?
8. Group 1: blonde (BL), brown (BR), red (RD), black (BK). Group 2: pizza (P), burgers (B). Is there a relationship between people who like burgers and people with red hair?
9. Group 1: blonde (BL), brown (BR), red (RD), black (BK). Group 2: pizza (P), burgers (B). Is there a relationship between people with brown hair and people with red hair?
10. Group 1: prefer mangos, prefer carrots, prefer pickles. Group 2: driver's license has been suspended, driver's license never suspended. Does eating mangos decrease driving skill?