Spot the Bias

**Data Management**

**Unit 1 Line Master 6a**

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| **Scenario** | **Where is the bias?** |
| An amusement park designer would like to know how much people weigh to establish safety protocols for a new ride. They decide to ask people standing in line for the Ferris wheel, “How much do you weigh?” |  |
| The Maple Park High School Sports Association is considering a rule change for Varsity Volleyball. They hand out surveys to teenagers at a mall. |  |
| The Student Council is going to host a Thanksgiving Dinner as a fundraiser for a local charity. To determine what food they should serve, they ask all the science teachers to hand out a survey that asks, “What is your favourite Thanksgiving food?” |  |
| A local butcher asks each customer, “Do you prefer hamburgers or hot dogs?” as they are leaving the store. |  |
| Your phone rings at 8 a.m. on a Saturday.  It is a company hired to conduct random surveys to assess how happy people are with service received at their favourite bookstore. They promise it won’t take more than 20 minutes. |  |
| A classmate approaches you with a question for their class project: “At what age did you finally stop sucking your thumb?” |  |
| To receive 10% off your bill at *Wing Ding Restaurant*, you are asked to answer this survey question: “Don’t you agree that our wings are the best?” |  |

Spot the Bias (cont’d)

**Data Management**

**Unit 1 Line Master 6b**

With your partner, pick **three** of the scenarios.   
Suggest an alternate way to collect the desired data that reduces or eliminates the bias.   
Be prepared to share your thinking and justify your decisions.

1.

2.

3.