

## Data Detective: How AI Uses Information

### Answer Key (Sample Responses)

1. **Pattern Hunt:** More hours studied usually means a higher test score.
2. **AI Use:** It might predict that a student who studies 5 hours will get a score around 90.
3. **Bias Check:** Both genders have high and low scores—it depends on study time, not gender. Assuming otherwise would be unfair and inaccurate.
4. **Data Gaps:** The dataset is too small; AI might make wrong predictions for students with different study habits, abilities, or learning styles.
5. **Better Data:** Include more students, past grades, study methods, class participation, or sleep/health information.