

Name: _____

Student Number: _____

Quiz Retake Review

Purpose:

- To practice skills and correct mistakes made on the quiz.
- To prepare you for the quiz retake.

Section 1: Questions, Hypotheses, and Variables - Answer the questions based on the story.

Story 1: Mary thinks that *if people eat a diet high in sugar, then they will be more likely to develop diabetes*. To test this, she runs an experiment comparing 2 groups of people. In Group A, people eat a diet high in sugar. In Group B, people eat a diet low in sugar. In 10 years, she will see who has developed diabetes.

- What is Mary's QUESTION (write your answer like a question):
If people eat a diet high in sugar, are they more likely to develop diabetes?
- What is her HYPOTHESIS (Mary's prediction, or answer to the question):
If people eat a diet high in sugar, they will develop diabetes.
- What is the INDEPENDENT VARIABLE (the variable that Mary is changing):
Sugar in diet
- What is the DEPENDENT VARIABLE (the variable that changes because of the IV):
Risk of diabetes

Story 2: Ash is wondering how he can catch more Pokémon. He usually uses regular Poké Balls, but *he thinks that using the new Great Ball might help him catch more Pokémon*. He will try to catch 10 Pidgeys using regular Poké Balls, then he will try to catch 10 Pidgeys using Great Balls. He will compare how successful each set of Poké Balls was to determine if using the Great Ball is worth it.

- What is Ash's QUESTION (write your answer like a question):
**Does the type of Pokeball I use affect how many Pokemon I catch?
OR If I use a Great Ball, will I catch more Pokemon?**
- What is his HYPOTHESIS (Ash's prediction, or answer to the question):
If I use a Great Ball, I will catch more Pokemon.
- What is the INDEPENDENT VARIABLE (the variable that Ash is changing):
Type of Poke Ball
- What is the DEPENDENT VARIABLE (the variable that changes because of the IV):
Number of Pokemon caught

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Section 3: Creating a line graph

Step 1: Read the data table. Identify which is the IV and the DV.

Step 2: Label the x-axis with the IV, label the y-axis with the DV.

Step 3: Use consistent intervals on each axis.

- Use the same spacing between tick marks
- Use the same scale between numbers

Step 4: Plot the points precisely (carefully) and connect the points.

Step 5: Write a relevant title (that tells me what the graph is about).

Practice: In this example, the x and y axis already have consistent intervals. You need to write the labels, precisely plot and connect the points, and write a title that is relevant to the graph.

IV: Hours spent at tutoring	0	1	2	3	4	5
DV: Grade in Math Class	50%	60%	60%	70%	72%	75%

