

Group Practice Questions

I. Please answer the questions with your partner(s).

There are several options to reduce household damages from flood. One option would be to elevate the structure of the house above the base flood elevation (BFE). In other words, it is to raise the floor level of the building to be above the level that floodwaters are expected to reach.

54 out of 100 houses that are lower than the BFE have had flood damage, while 39 out of 100 houses that are above the BFE have had flood damages.

- 1-1. To help people understand the data, which type of graph would you choose to visualize the data?
- Bar graph
 - Icon array
 - The data cannot be visualized.

1-2. Visualize the data using the graph type of your choice.

- 1-3. Based on the data, the houses above the BFE:
- are more vulnerable to flood damage risk as compared to the houses below the BFE
 - are less vulnerable to flood damage risk as compared to the houses below the BFE
 - have the same vulnerability to flood damage risk as the houses below the BFE

Why? Please briefly explain your answer:

II. Please answer the questions with your partner(s).

Diversity university conducted a survey on the number of incidents of hail damage in student residential buildings for the last 5 years. The West and East buildings have 50 units each, and the Central building has 100 units.

According to the results, 15 units from the West building, 10 in the East building, and 25 units in the Central building have experienced hail damage.

- 2-1. To help people understand the data, which type of graph would you choose to visualize the data?
- Bar graph
 - Icon array
 - The data cannot be visualized.

- 2-2. Visualize the data using the graph type of your choice.

- 2-3. Based on the data, which building was most vulnerable to hail damage for the last 5 years?
- West Building
 - East Building
 - Central Building

Why? Please briefly explain your answer:

Individual Practice Questions

III. Please answer the questions on your own.

After an exam you are looking forward to going hiking. You find two trails that you think you would enjoy equally.

Trail A has sunny weather 2 out of 10 days. Trail B has sunny weather 10 out of 100 days.

3-1. Based on the data, which trail is more likely to be sunny?

- a. Trail A
- b. Trail B
- c. No difference

Why? Please briefly explain your answer:

IV. Please answer the questions on your own.

Jimmy and friends are going on a picnic today. They have two destinations in their mind: Town A and Town B. They checked weather forecasts for the day.

In Town A, there is a 30% chance of rain forecasted for today. In Town B, there is a 40% chance of no rain today.

4-1. According to the data, to avoid a rainy picnic, which would be a better destination for Jimmy?

- a. Town A
- b. Town B
- c. No difference

Why? Please briefly explain your answer: