6.SP Buttons: Statistical Questions

Zeke likes to collect buttons and he keeps them in a jar. Zeke can empty the buttons out of the jar, so he can see all of his buttons at once.

a. Which of the following are statistical questions that someone could ask Zeke about his buttons? (A statistical question is one that anticipates an answer based on data that vary.) For each question, explain why it is or is not a statistical question.

   i. What is a typical number of holes for the buttons in the jar?

   ii. How many buttons are in the jar?

   iii. How large is the largest button in the jar?

   iv. If Zeke grabbed a handful of buttons, what are the chances that all of the buttons in his hand are round?

   v. What is a typical size for the buttons in the jar?

   vi. How many buttons have four holes?

   vii. What is a typical number of holdes for buttons in the jar?

   viii. How are these buttons distributed according to color?

b. Write another statistical question related to Zeke's button collection