TODAY'S AGENDA: January 31

- ● WELCOME TO 3RD QUARTER

- ● Work on Khan Academy Mission:
  - > Valid Claims

- ● Today's Objective: Small-Group Lesson:

  - > Relative Frequency Tables

- ● Today's Standard:

  - > Summarize, represent and interpret data on a single count or measurement variable.

Dominguez, Edson
edwards,jahkeem
garcia, nanely
Hamilton, Robbie
lazo,victor
Marshall, Nicolette
ravenell, hope
Suero, Patricia

Adames,Andy
cuevas, mychelle
Ross,Kevin

Valid Claims:

1. Is the outcome valid

2. Is the Sample random
   (non-biased)

In a survey based on a random sample of 1000 customers, CableCom found that 42% of its customers are satisfied with CableCom's service.
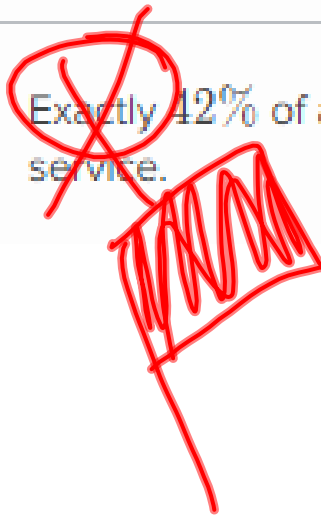
Based on this data, which of the following conclusions are valid?

About 42% of all of CableCom's customers are satisfied with their service.

Exactly 42% of all of CableCom's customers are satisfied with their service.

45

+/- 3%   margin of error

39

Sweet Treats candy company wants to introduce a new flavor of jelly bean. They have three choices: Mango, Papaya, or Coconut. They decide to do a survey to determine which flavor their customers prefer. A random sample of 100 Sweet Treats customers tried a free sample of all three flavors. The data showed that 55% preferred Mango, 20% preferred Papaya, and 25% preferred Coconut.

Based on this data, which of the following conclusions are valid?

○ 55% of customers in this sample prefer Mango, but we cannot conclude anything about the population.

○ About 55% of all Sweet Treats customers prefer Mango.

○ About 55% of all adults prefer mango

The entertainment committee at Maplecrest Junior High School has narrowed down the theme of the Spring Dance to three choices. The ten committee members want to conduct a survey to determine which theme Maplecrest's 2000 students prefer. There will be three choices (Disco Fever, The Crazy Eighties, or Hip Hop Til You Drop) and the committee will go with the theme that gets the most votes.

Which of the following survey methods will allow the committee to make a valid conclusion about which theme Maplecrest's student body prefers?

○ Each of the 10 committee members can ask 10 friends to obtain a sample of 100 students.

Assign a number to each student, and use a computer program to generate 100 random numbers between 1 and 2000. Ask those students whose numbers are selected.

City Councilwoman Kelly wants to know whether the residents of her district support a proposed school redistricting plan.

Which of the following survey methods will allow Councilwoman Kelly to make a valid conclusion about whether residents of her district support the proposed plan?

○ Ask 200 residents of her district whose names are chosen at random.

○ Ask 200 parents at the local playground.