Sampling Methods Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Identify the sampling method used (no repeats)*

* 1. **A farmer brings a juice company several crates of oranges each week. A company inspector looks at 10 oranges on the top of each crate before deciding to buy all of them.**
  2. **The ABC program Nightline once asked whether the United Nations should continue to have its HQ in the United States. Viewers were invited to call one number to vote “yes” and another to vote “no” free of charge. 186,000 people voted and 67% said “no”**
  3. **Ms. Riley wants an opinion on the new recovery policy. She asks every 10th student in the lunch line to tell her their thoughts.**
  4. **Ms. Frazier wants to know what kind of cake students like best. She goes to 2 homerooms of each grade and asks all students.**
  5. **Ms. Carter is wondering how her former students are doing in their math classes this year. She numbers all her current students and draws 30 numbers for students to be asked.**
  6. **Students are grouped by homeroom to win a chance to attend a basketball game for free. Then 1 student’s name is drawn out of a hat from each homeroom.**

1. **Create your own type of example for each sampling method:**
   1. **Simple Random Sample:**
   2. **Voluntary Response Sample:**
   3. **Systematic Sample:**
   4. **Stratified Random Sample:**
   5. **Convenience Sample:**
   6. **Clustered Sample**

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Find the mean, median, mode, and range of the following data sets:

1. 34, 35, 49, 21, 39, 22, 17, 44, 21, 41
2. 20, 32, 57, 32, 76, 23, 67, 26, 45
3. 132, 136, 140, 112, 143, 126, 144, 132, 131, 147
4. 51, 27, 65, 17, 26, 75, 35, 28, 99
5. You receive a 78, 88, 72, and an 80 on your tests in math class this semester. What do you need to make on the last test to have a test average of 81?
6. You receive a 58, 88, 90, and a 72 on your tests in math class this semester. What do you need to make on the last test to have a test average of 80?
7. Cam scores 14, 15, and 16 points in 3 different games. How many points does he need to score in the fourth game to average 14 points per game?
8. You receive a 70, 85, 72, and an 88 on your homework in math class this semester. What do you need to make on the next homework to have an average of 80?

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