

Name \_\_\_\_\_

Key

Date \_\_\_\_\_

Sampling WS Example

A class wanted to raise money for their school trip. They could raise money by selling raffle tickets for a gaming system. Before they decide to have a raffle they wanted to estimate how many students in the whole school would buy a ticket. They decided to do a survey to find out first. The school has 600 students in years 1 – 6 with 100 students in each year.

1. How many students would you survey? Explain why.

all to know exact #  
600 or 60 : 5 boys/girls from all grades

2. How would you choose them? Explain how.

all or randomly  
60; 10 from each grade.

3. Shannon got the names of all 600 students in the school and put them in a hat. Then she pulled out 60 names. What do you think of Shannon's survey? Explain your answer.

X what if the 60 were the "wrong" people to ask.  
✓ 60 is 10% of population, random

4. Adam asked all of the 100 children in year 1. What do you think of Adam's survey? Explain.

X not any could buy, selected not a variety of grades  
✓ he asked all, but only one class

5. Raffi asked 60 of his friends. What do you think of Raffi's survey? Explain.

X what if not his friend, what grades, similar likes  
✓ 60 is 10%

6. Claire set up a booth outside the concession stand at the football game Friday night. Anyone who wanted to stop and fill out a survey could. She stopped collecting surveys when she got 60 kids to complete them. What do you think of Claire's survey? Explain.

X not at game or didn't need food/drink  
what if participating, volunteer bias, what if people go twice +  
✓ they chose to participate

Jake: ✓ enough people, They could play the system

X Sample not broad enough  
Selected not random