

Determine if the following sample is representative. If yes, explain how you know. If no, explain how you would take a sample.

- 1) Population: Home owners in Utah county.
Question: Do you own a riding lawn mower?
Sample: Every 5th person who enters Home Depot in Lindon.

- 2) Population: Elk heard in Wasatch Mountains.
Question: How many babies are born in each heard?
Sample: 4 herds observed in random locations from American Fork canyon to Big Cottonwood canyon.

- 3) Population: Every 7th grade girl at Pleasant Grove Jr. High
Question: Do you have your own cell phone?
Sample: Every 7th grade girl who attends the flex movie.

- 4) Population: Every 7th grade boy in Utah
Question: Do you play football?
Sample: PG Jr. and Oakcanyon Jr. boys

- 5) Define your own Population and statistical question. Describe the sample you would take to gather your information.
Population:

Question:

7) $[20 - 2(2 + 3) + 10]$

8) $\frac{3+7}{3^2+18}$

9) $36 \div 6(3) + (7 - 2)$

10) $23 \times 2 - 16 \div 4$