## Answer on Question #60550 – Math – Statistics and Probability Question

From the list of populations and samples, which samples are representative of the population?

- **1.**-Population: Healthy adults from single geographical area for a vaccine study. Sample: Employees at a local factory
- **2.**-Population: Individuals infected with hepatitis C virus. Sample: Patients presenting with hepatitis C virus at a liver clinic in a teaching hospital
- **3.**-Population: Women diagnosed with breast cancer between 1990 and 1999. Sample: Women first attending hospital with breast cancer between 1990 and 1999
- **4-**Population: study of the general population to assess the prevalence of a number of bloodborne viruses. Sample: Blood donors

## Solution

**1.** Sample is representative.

Employees at a factory are likely to give a broad range of occupations and regions of residence, and as they are working, they are likely to be reasonably healthy.

- **2.** Sample is not representative. Sample is self-selected.
- **3**. Sample is representative.

As almost all women diagnosed with breast cancer would require treatment this would probably lead to a representative sample.

4. Sample is not representative.

Sample is self-selected.

Answer: 1 and 3.

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