

Name: _____

Date: _____

Parameters & Statistics

Instructions:

For each study below, identify the population, sample, parameter of interest, and any statistics.

1. A poll is a type of survey that is used to make statistical inference, a conclusion about a population based on a sample. In 2013, Gallup, a polling agency, surveyed 2,048 adults to find out Americans' main source of news. 55% of adults responded that they get their news from television.

Population: _____ Parameter: _____

Sample: _____ Statistic: _____

2. In 2009, Time Magazine conducted an Internet poll of affluent adults (people whose income is \$150,000 per year or more). A total of 603 affluent adults over the age of 18 were interviewed. They found that 95% of affluent Americans made online purchases in the last year.

Population: _____ Parameter: _____

Sample: _____ Statistic: _____

3. In a 2013 article published by The Guardian, an English newspaper, a survey found that 62% of 16–24-year-olds prefer print books over digital books. In this survey, 1,420 young adults aged 16–24 were interviewed.

Population: _____ Parameter: _____

Sample: _____ Statistic: _____

4. The Centers for Disease Control (CDC) collected data from 20,015 Americans between 2007 and 2010. The CDC wanted to know the typical height of women over age 20. 5,971 women aged 20 and over were part of the study. They found that the average height in centimeters is 163.8.

Population: _____ Parameter: _____

Sample: _____ Statistic: _____

Name: _____

Date: _____

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Answer Key

1. A poll is a type of survey that is used to make statistical inference, a conclusion about a population based on a sample. In 2013, Gallup, a polling agency, surveyed 2,048 adults to find out Americans' main source of news. 55% of adults responded that they get their news from television.

Population: <u>All American adults</u>	Parameter: <u>Percent of all American adults</u>
	<u>that get their news from TV.</u>
Sample: <u>2,048 American adults</u>	Statistic: <u>55% of adults surveyed</u>
	<u>get their news from TV.</u>

2. In 2009, Time Magazine conducted an Internet poll of affluent adults (people whose income is \$150,000 per year or more). A total of 603 affluent adults over the age of 18 were interviewed. They found that 95% of affluent Americans made online purchases in the last year.

Population: <u>All affluent American</u>	Parameter: <u>Percent of affluent American</u>
<u>adult internet users</u>	<u>adults that shop online.</u>
Sample: <u>603 affluent American</u>	Statistic: <u>19/20 (or 95%) of affluent</u>
<u>adult internet users</u>	<u>adults surveyed shop online.</u>

3. In a 2013 article published by The Guardian, an English newspaper, a survey found that 62% of 16–24-year-olds prefer print books over digital books. In this survey, 1,420 young adults aged 16–24 were interviewed.

Population: <u>All English 16–24-year-olds</u>	Parameter: <u>Percent of all English 16–24</u>
	<u>y-o's who prefer print books.</u>
Sample: <u>1,420 16-24-year-olds</u>	Statistic: <u>62% of English 16–24 y-o's in</u>
	<u>the sample prefer print books.</u>

4. The Centers for Disease Control (CDC) collected data from 20,015 Americans between 2007 and 2010. The CDC wanted to know the typical height of women over age 20. 5,971 women aged 20 and over were part of the study. They found that the average height in centimeters is 163.8.

Population: <u>All American women</u>	Parameter: <u>Average height of all</u>
<u>over age 20</u>	<u>American women over age 20.</u>
Sample: <u>5,971 American women</u>	Statistic: <u>163.8cm is the average height</u>
<u>over age 20</u>	<u>of women in the sample.</u>