DO NOT TURN QUIZ OVER !! (until asked to do so)

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For maximum benefit, observe <u>exam conditions</u>:

- Write answers <u>yourself</u> (No help from classmates)
- Calculators <u>may not</u> be shared.
- Use pencil/pen and <u>calculator</u> only. (No notes/cellphones)
- You have 8 minutes for quiz. (We review afterward)

Useful Information:

Six Steps of Inference:
Step 1 What is the *Question* of interest to the researcher?
Step 2 What *Population* is associated with the question?
Step 3 Take a *Sample* from the population.
Step 4 Measure one or more *Variables* on each unit in the sample.
Step 5 *Summarize* the sample measurements.
Step 6 Make an *Inference* about the population from the sample summary.

DIRECTIONS: Turn face down when finished. You have 8 minutes to complete the quiz.

News reports from January, 2020 indicated that the civil war in Syria (a country in the Middle East) continued unabated, posing huge policy problems for the U.S. and the international community.



Let the *Syria Approval Rating* for any particular group of people be defined as the percentage of people in that group who answer "Yes" to the question "Do you approve of U.S. government policy toward Syria?"

Suppose that the *Iowa City Press-Citizen* newspaper conducted a telephone survey on Feb. 1, 2020 in which this question was asked of 704 persons who live in either Iowa City or Coralville, as shown below:

			Residents of Iowa City	
	UI students who	UI students who	and Coralville who	
Answer	live in Iowa City	live in Coralville	are not UI students	Total
Yes	20	58	242	320
No	52	20	155	227
No Opinion	22	34	101	157
Total	94	112	498	704

1. Suppose **Step 1** of the **Six Steps of Inference** is:

What's the single Syria Approval Rating for all UI students who live in either Iowa City or in Coralville on Feb. 1, 2020?

- (a) How many units are in the sample? Answer _____
- (b) Provide a complete answer to **Step 6** in the space below. (Do <u>not</u> provide answers to Steps 2–5.)

2. Suppose **Step 1** of the **Six Steps of Inference** is:

What's the single Syria Approval Rating for all residents of Iowa City and Coralville who are not UI students on Feb. 1, 2020?

- (a) How many units are in the sample? Answer _____
- (b) Provide a complete answer to **Step 6** in the space below.

3. Within Iowa City and Coralville, do <u>UI students</u> or <u>non-UI students</u> appear to have a greater Syria Approval Rating on Feb. 1, 2020? (Choose one of these two groups as the answer.) Answer ______ Macbride Quiz Announcements - Prof. Whitten

- I post Practice Quiz Solution on the Stats Website after each quiz for easy review. (See Macbride Quiz page.)
- <u>Self-Grading!</u> Now compare <u>your</u> answers to the solution that I show!
- Spend the last few minutes of class <u>self-grading</u> and comparing answers. Speak with TAs!

DIRECTIONS: Turn face down when finished. You have 8 minutes to complete the quiz.

News reports from January, 2020 indicated that the civil war in Syria (a country in the Middle East) continued unabated, posing huge policy problems for the U.S. and the international community.



Let the *Syria Approval Rating* for any particular group of people be defined as the percentage of people in that group who answer "Yes" to the question "Do you approve of U.S. government policy toward Syria?"

Suppose that the *Iowa City Press-Citizen* newspaper conducted a telephone survey on Feb. 1, 2020 in which this question was asked of 704 persons who live in either Iowa City or Coralville, as shown below:

Sampl	e for				Residents of Iowa City		Sample for Pop 2		
-op i		UI students who	UI students who		and Coralville who	K			
	Answer	live in Iowa City	live in Coralville		are not UI students	Total			
·	Yes	20	58		242	320			
	No	52	20		155	227	Population for		
	No Opinion	22	34		101	157	Question 1		
	Total	94	(112)		498	704			
1. Suppose Step 1 of the Six Steps of Inference is:									
	What's Coraly	the single Syria A tille on Feb. 1, 2020	pproval Rating for ?	a	ll UI students who live	in either	Iowa City or in		
(a) How many units are in the sample? Answer $94 + 112 = 206$									
(b) Provide a complete answer to Step 6 in the space below. (Do <u>not</u> provide answers to Steps 2–5.)									

The Syria Approval Rating for all UI students who live in Iowa City or Coralville is

approximately 78/206 = 37.9% on Feb. 1, 2020.

2. Suppose **Step 1** of the **Six Steps of Inference** is:

What's the single Syria Approval Rating for all residents of Iowa City and Coralville who are not UI students on Feb. 1, 2020?

- (a) How many units are in the sample? Answer 498
- (b) Provide a complete answer to **Step 6** in the space below.

The Syria Approval Rating for all residents of Iowa City and Coralville who are

not UI students is approximately 242/498 = 48.6% on Feb. 1, 2020.

3. Within Iowa City and Coralville, do <u>UI students</u> or <u>non-UI students</u> appear to have a greater Syria Approval Rating on Feb. 1, 2020? (Choose one of these two groups as the answer.)

Answer non-UI students