

Stat101 Worksheet Name:
 Confidence Interval for Population Proportion Section:

Polling Data						
Poll	Date	Sample	Nussle (R)	Culver (D)	Und.	Spread
RCP Average	10/08 - 10/20	-	42.7	48.0	7.7	Culver +5.3
Rasmussen	10/20 - 10/20	500 LV	45	49	5	Culver +4.0
Research 2000	10/16 - 10/17	600 LV	44	49	6	Culver +5.0
Zogby Interactive*	10/10 - 10/16	543 LV	45	48	6	Culver +3.0
Selzer & Co.	10/08 - 10/11	800 LV	39	46	12	Culver +7.0
Rasmussen	10/05 - 10/05	500 LV	45	44	8	Nussle +1.0
Zogby Interactive*	09/19 - 09/25	558 LV	46	46	8	Tie
Selzer & Co.	09/10 - 09/13	600 LV	44	44	10	Tie
Research 2000	09/11 - 09/12	600 LV	43	48	9	Culver +5.0
Victory Enterprises (R)	09/05 - 09/06	506 LV	41	38	20	Nussle +3.0
Zogby Interactive*	08/29 - 09/05	n/a	46	43	11	Nussle +3.0
Rasmussen	08/28 - 08/28	500 LV	40	42	12	Culver +2.0
Zogby Interactive*	08/15 - 08/21	n/a	45	48	7	Culver +3.0
Rasmussen	07/27 - 07/27	500 LV	38	41	17	Culver +3.0
Research 2000	05/20 - 05/22	600 LV	41	49	10	Culver +8.0
Rasmussen	04/25 - 04/25	500 LV	40	46	11	Culver +6.0
Rasmussen	03/29 - 03/29	500 LV	38	40	16	Culver +2.0
Research 2000	03/20 - 03/22	600 LV	43	44	13	Culver +1.0
Rasmussen	02/07 - 02/07	500 LV	40	41	12	Culver +1.0
Rasmussen	01/09 - 01/09	500 LV	40	40	13	Tie
Rasmussen	11/28 - 11/28	500 LV	38	41	14	Culver +3.0
Research 2000	11/14 - 11/16	600 LV	42	38	20	Nussle +4.0
Research 2000	05/02 - 05/04	600 LV	41	35	24	Nussle +6.0

The Selzer & Co is the Des Moines Register poll conducted Oct 8-11 where we calculated a 95% confidence interval for voters in favor of Culver to be (42.6%, 49.5%).

1. Compute the 95 % confidence intervals for Culver votes in the Rasmussen 10/20, Research 2000 10/16-17 and Zogby Interactive 10/10-16 poll results.
2. Plot all of the intervals as line plots, showing the relative overlap and disparity between polls.
3. Explain why there is a difference in the confidence intervals produced from the polls of the different organizations.