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Question: In your calculations please use at most three decimal points. F...

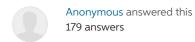
In your calculations please use at most three decimal points. For brief explanations, two or three sentences is enough.

A survey is done by a news agency for presidential elections. The agency reported that the Reds are leading Blues by 11%, because 48% of the participants supported Red Party's candidate while 37% supported Blue Party's candidate. Note that 400 people participated in the survey and the population size is significantly larger than 400.

- a) What margin of error should be reported for each candidate's estimated vote rate?
- b) What margin of error should be reported for the estimated lead?
- c) Which candidate's margin of error is larger than the other? Explain the reason.
- d) How would margin of errors change if there were 1800 participants in the survey? Briefly explain.

NOTE: Use 95% confidence interval for calculating margin of errors.

Expert Answer ①



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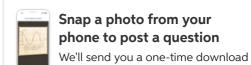




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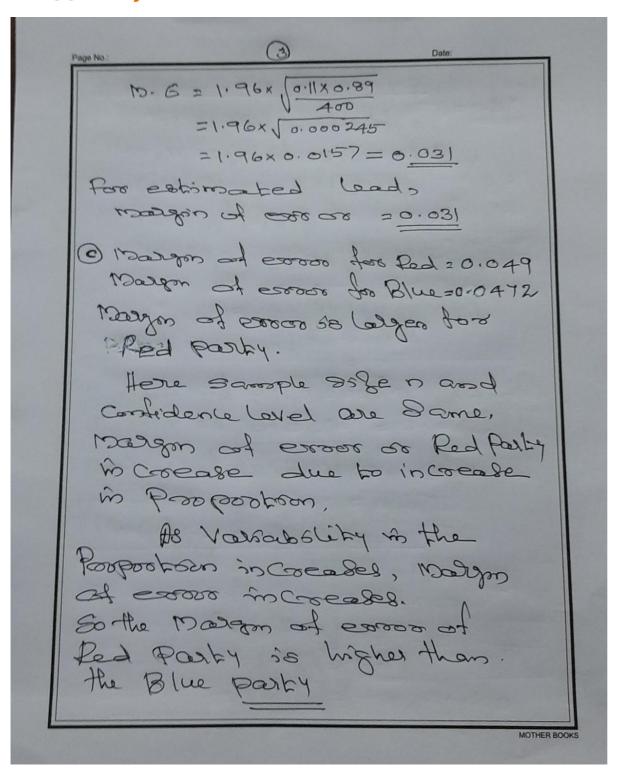
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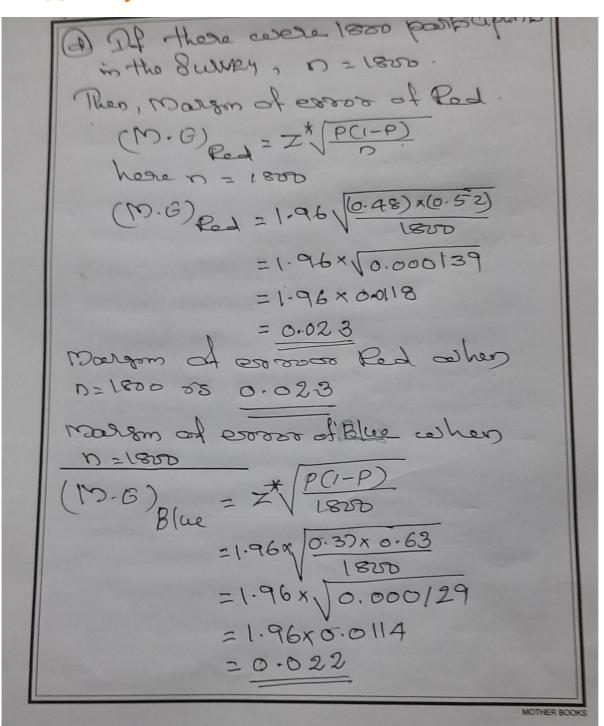


Do population proposico, Dargon of error (M.G) M. E = Z* P(1-P) p -> Sample bestocken Z* - Value of Z* -los selected For 95% of Confidence Cerrel Z = 1-9.6 @ For red porty's Casdidate Sample pospostom P = 48%=0.48 Sample 35 ge n = 400 Molgom of Coroso (m.G) = 2* P(1-P) M. 6 = 1.96 x (0.48 (1-0.48) 19.6 = 1.96 x (0.48) x (0.52) 400 =1.96x, 0.000624 =1.96×0.025=0.049 for red Parky's Carodidate 940.0= 20000 to nathrow

for Blue Party Coundidate Sample Propertous, p = 371.=0.31 Sample 86 de n = 400 Table value of z Coroesponding t Confidence level 95% 39 2 = 1.96 Modern of excess (m. 6) = Zx PC1-P) P=0.37, 1-P=1-0-37=0.63 M. G = 1.96x/0.37x0.63 =1-96 × 0.00058 21.96x0.0241 = 0.0472 For Blue Parky Condidate margn of error = 0.0472 b) for estimated lead, Sample proopookon \$ = 117. = 0.11 3ample 839e, n =400 Margon of essor (m.6) = Z* (PCI-P) P=0.11, 1-P=1-0-11=0.89 I' (for table) =1-96, 0=400







Mongon of coros of Blue Posty when

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(M.E) load = 2-96x (0.11) x (0.89)

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= 1.96x - 0.0000 544

Coad, when n=1800 > 8 0.0145

As the Sample Safe increases

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