Joy Matubber 20-41959-1



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observation (x)	27 57	8	67	10	7	6	g	11	2	2	7	7	12	9
Serval Number	1	2	3	4	.5	6	7	8	9	10	11	12	13	14
observation (x)	11	3	7.	8	5	6	7	6	9		47	; O:		
Servial Number	15	16	17	18	19	20	21	22	23	24	25		-	

Harre, population size N = 25

Sampling Interval N= 10 1 4 1 5 6/25 FC

Now 1- k= 1-6 30, selected sample 15, 5, 11, 17, 23

NOW,

			1 4	- in the state of the
Random Number	5	11,08	17	23
signals recoved	7	17	チ	9

$$v(\bar{z}) - \frac{N-n}{Nn}(\bar{s}) - \frac{25-4}{25x4} \times 1 = 0.21$$

And, $\bar{x} = \sqrt{y(\bar{x})} = \sqrt{0.11} = 0.45$ The Estimate of standard errors of restimate of population total is (2x) of 5N = (x) No 50 (x) And, = 25 x0.45 = 286.41 'X = VV() = \$286.41=16.92 D'Estimate the proportion of Just which less than 8 signals are received. In our population there are 3 signal Mre less than 8, 50, 0= 3 Observation (x) Serial Number 3 5 6 110 9 10 Observation (x) B 0 2 7 2 Bertial Number 17 16 18 20

use sample random sampling methode NOW, The 6 random days are 11,16,09,12,19 11 Random Number 16 signal Foded 1 3 = n-1 | Ex2 - Ex $= \frac{119}{4} \left[85 - 45 \right] = \frac{40}{4} = 10$ arieance of gample meanis $\sqrt{(z)} = \frac{N-n}{Nn}(s)$ $=\frac{30-5}{20\times 5}$ (10) = 1.67 x= \(\sigma(\frac{1}{2}) - \sigma(\frac{1}{167} = 1.29 The Stamate of standard ennors of estimate population total is, a a is sold in V(7)= mV(n)= 30x 1.67 = 1,803 11 20 -and; 2 - Jv (x) = J 1830 Deteles with Bridging = 38.76 sign

Mangin of error d = 0.1 P = 8.45And 2 = 1.96

The sample size nos given by,

205.07

observation (x)	10	7	10111	a	1 - 0	1 .73	110	1.		47.		
Sendal Number	10	7	6	5)	11	4	12	70	794	19	rge	145
Oh continue		2	3	4	5	6	7	8	9.1	10	23(12)	12
	8	7	10.	7	6.	9	711V	4	(O: 1)	-7	\$	12
Secial Number	13	14	15	16	17	18	19	20	0.1	+	+	
100000	16	11	1		t 1	mj- V	10	20	21	22	23	

Use simple mondon sompling sens selected 4 days are, 11, 16, 9, 12

1 400			a mile	1
Random Number	11	16	9	12
mails raceived	11	7	70	45.1

NOW. \\ \frac{2}{3} \left(\delta \delta \frac{1}{3} \left(\delta \delta \delta \frac{1}{3} \left(\delta \delta \delta \frac{1}{3} \left(\delta \delta \delta \delta \frac{1}{3} \left(\delta \d

The Variance of sample mean is,

$$(\sqrt{x}) = \frac{N-n}{Nn} = \frac{23-4}{23x4} = (338.67)$$

The standard carron of estimate of mean is,

· 016 54 060 = 8.37

Given that, Marigin of error d=0.05

Sample Size on is given by