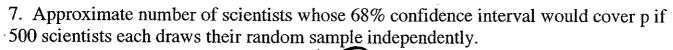
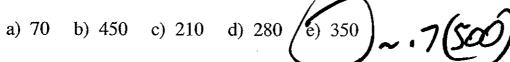


- 1. Estimated margin of error of \hat{p} .
- c) d)
 - 2. Estimated standard error of \hat{p} .
 - a)
 - 3. Estimate of p.
 - a) b) c)
 - 4. Finite population correction factor.
 - a)
 - 5. Estimated standard deviation of the list of all possible \hat{p} .
 - e) a)
 - 6. z-score for 98% confidence.
 - d) 2.576 c) 1.96₄ d) 2.326 b) 1.645 a)





8. Sample standard deviation s for list $\{0, 0, 0, 0, 10\}$.

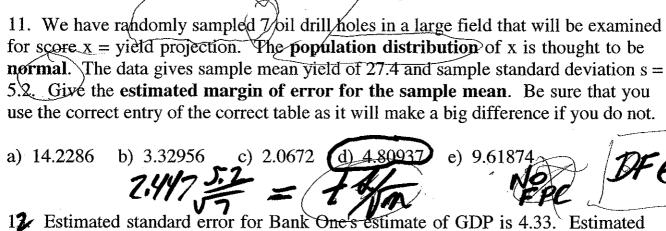
9. Determine the probability under the standard normal curve to the left of z = 1.29.

10. We've sample 100 men and, independently of them, 400 women, for score x = LDL cholesterol level. The samples, from large populations, yield

	mean	women
n	100	400
sample mean	223	212
sample s	20	40

Estimated standard error of $\overline{\mathcal{X}}_{men}$ - $\overline{\mathcal{X}}_{women}$.

a)
$$\frac{20}{10} + \frac{40}{20}$$
 b) $\sqrt{\frac{20}{10} + \frac{40}{20}}$ c) $\sqrt{\left(\frac{20}{10}\right)^2 + \left(\frac{40}{20}\right)^2}$ d) $\sqrt{\frac{20}{10} - \frac{40}{20}}$ e) $\sqrt{\left(\frac{20}{10}\right)^2 - \left(\frac{40}{20}\right)^2}$



standard error for Wells Fargo's estimate of GDP is 3.87. Give the estimated standard error for the difference (Bank One's Estimate-Wells Fargo's Estimate).

(b) $\sqrt{4.33 - 3.87}$ c) 4.33 + 3.87 d) 4.33 - 3.87 e) None of them

13. The sample standard deviation s of a list x is 3.1. Determine the sample standard deviation of the list y = 2.8 x + 2

deviation of the list y = 2.8 x + 2 (a) $2.8^2 3.1^2$ (b) $2.8^2 3.1^2 + 4$ (c) 2.8 (3.1) (d) 2.8 (3.1) + 2 (e) None of them

1. A large field is divided up into 1000 small non-overlapping regions. From a random sample of these regions we determine a 95% confidence interval [45.2, 61.4] for the population mean number of shoots of grass per small region. Give a 95% confidence interval for the total number of shoots of grass in the entire field.

a) [45200, 61400] **b**) [55800, 59200]

c) [452, 614] d) [235.4, 751.8]

e) None of them

