7 :

(a) True ~~yes~~. $= \frac{1.75}{\sqrt{625}} = 0.07$

(b) True ~~yes~~ . $(\bar{x} - 2SE, \bar{x} + 2SE)$

(c) ~~False~~ False : It does not make sense to estimate "Average household size in the sample" which is already known. No need to estimate ;

(d) No : Cheton 2.(6 and 2.44] means 2 people confidence interval is for estimating the population mean !

(e) No same reason as (d).

(f) No household sizes can be only 1, 2, 3, 4, ... they are discrete, not continuous.

(g) yes. Central limit theorem