a. The population mean is unknown but the best estimate is the sample mean
b. Because we use sample less than 30
c. T = 2.093
d. $\mu = \bar{X} \pm t \frac{s}{\sqrt{n}}$

$\mu = 20 \pm 2.093 \frac{2}{\sqrt{20}}$

$\mu = 20 \pm 2.093 (0.447)$
$\mu = 20 \pm 0.936$
$19.06 < \mu < 20.94$
e. Neither 21 or 25 eggs is reasonable because the both are not the inside of interval