17-1 (a-h on your own)
i)

Let $p=$ the prop. of all people $\frac{\text { Who would pick the RE }}{\text { variable }}$
j) $H_{0}: p=.25$
all tires = likely
null hypothesis
(assumption)
$K$
$a: p>.25$
people are more likely
alternate
l) $z=$

$$
\text { 又) } z=\frac{.4658-.25}{.0507}=4.26
$$

test statistic
$m$
$\operatorname{Pr}(z \geq 4.26) \approx 0$
n)

$$
\left.\begin{array}{ll}
\text { Very unlikely } & \text { the prob. of getting } \\
\text { less than all levels: } & \text { 47\% ar more in the sample } \\
& \text { lo say RF, If the } \\
\text { actual prop. to say RF is } 20 \%
\end{array}\right)
$$

reject Ho
fail to reject $H_{0} \rightarrow$ is sign. $\rightarrow$ not signal
0). $n p \geq 10$ and $N(1-p) \geq 10$ (i ne)

- SRS from pop. of interest
not a random sample (her students) but could be considered representative of all studentsWith a p-value of $\approx 0$, this is significant at There is enough ovidence to reject to people seem to be mane likely to choose RF

