## Answer on Question \#84228 - Math - Statistics and Probability

Can anyone please help me to solve these problems with explanation as possible.

| Gender | age $<25$ | $25 \leq$ age $<45$ | age $\geq 45$ | Total |
| :--- | :---: | :---: | :---: | :---: |
| Male | 132 | 296 | 206 | 634 |
| Female | 118 | 152 | 315 | 585 |
| Total | 250 | 448 | 521 | 1219 |

## Question

1) What is the probability of selecting a female employee and under 25 years old? (0.1095) (0.4500) (0.5882)

## Solution

$p=\frac{n(\text { Female and under } 25 \text { years old })}{n(\text { Total })}=\frac{118}{1219}=0.0968$.
Answer: 0.0968.

## Question

2) What is the probability of selecting a female or 25 to less than 45 years old? (0.6526) (0.8310) (0.0896)

## Solution

$p=\frac{n(\text { Female })+n(25 \text { to less than } 45 \text { years old })-n(\text { Female and } 25 \text { to less than } 45 \text { years old })}{n(\text { Total })}=\frac{585+448-152}{1219}=$ $=0.7227$.
Answer: 0.7227.

