1) Given information
   a) 80% of emails sense or spam
   b) 10% of this bank emails
   The phrases free money is used.
   1% of non spam emails.
   · 80% of emails are spant. so the probability of events
   S and that is 0.8.
   So, the probability of compliments. is 1-0.8 = 0.2
   probabilis. F male catered & the phrases.
   free money is used. here 10% or 0.1
   .
   Probability or s is 0.8 times probability of f
   given sns 0.1   so. 0.8 becomes 0.1
   Now the probabilies of s. prine over here. 0.2
   ⊕ Terms probability. or f given s prime is
   over here, that's 0.01.
   Answer would be 40 out of 41 or 0.9756.

   P(S+Fn)

   notice P(S) + P(N) = 1

   $$P(S/Fn) = \frac{P(Fn/S) P(S)}{P(Fn/S) P(S) + P(Fn/N) P(N)}$$

   P(Fn/S) = 10%   P(Fn/N) = 10

   $$P(S/Fn) = \frac{40}{41} = 0.9756$$

(2) Given information

Sixty (60)% of new drivers have had driver education.
So, new drivers without driver education
have probability 0.08 of having accident.

Let D be categorical variable that may either be
"Driver Ed" or "No Driver Ed"

	Pr accident	Pr no accident
Driver Ed	0.6	0.95
No Driver Ed	0.4	0.92

$$Pr(ED)/(No\ accident)$$
$$Pr(DE/No\ accident)$$

$$= \frac{(0.95 \times 0.6)}{(0.95 \times 0.6) + (0.92)(0.4)}$$

$$= \frac{0.56}{(0.56) + (0.368)} = \frac{0.56}{0.928}$$

$$= 0.6034$$

$$P(A/B) = \frac{P(B/A)\ P(A)}{P(B)}$$

$P(D) = P(Education/No\ accident)$

$P(A) = No\ Education$

$P(B) = No\ Accident$

probability of new driver has had driver education is 0.60