Mammogram screening for breast cancer in women age 40-50:
"The probability that one of these women has breast cancer is 0.8 percent. If a woman has breast cancer, the probability is $\mathbf{9 0}$ percent that she will have a positive mammogram. If a woman does not have breast cancer, the probability is $\mathbf{7}$ percent that she will still have a positive mammogram."

Imagine a woman who has a positive mammogram.
What is the probability that she actually has breast cancer?

Researchers asked 24 German doctors this question.

- 8 said $\leq 10 \%$
- 8 said $90 \%$
- 8 said between $50 \%$ and $80 \%$

American doctors: 95 out of 100 guessed around $75 \%$.

