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through.

Finally, to find the probability that a positive test actually means cancer, we look at those who passed through the sieve with cancer, and divide by all who received a positive test, cancer or not.
$$\frac{p(\text{test} + | \text{cancer})}{p(\text{test} + | \text{cancer})} = \frac{1\% * 80\%}{(1\% * 80\%) + (99\% * 9.6\%)} = 7.8\% = p(\text{cancer} | \text{test} +)$$