Bayes Theorem

Mach1: 30 wrenches / hr   -> P(Mach1) = 30/50 = 0.6
Mach2: 20 wrenches / hr   -> P(Mach2) = 20/50 = 0.4

Out of all produced parts:
We can SEE that 1% are defective   -> P(Defect) = 1%

Out of all defective parts: -> P(Mach1 | Defect) = 50%
We can SEE that 50% came from mach1   -> P(Mach2 | Defect) = 50%
And 50% came from mach2