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A factory has two machines. Machine A produces 60% of all items, and Machine B produces 40% of all items. Of the items produced by Machine A, 2% are defective. Of the items produced by Machine B, 5% are defective. Find the probability that a defective item is produced by Machine B.

$$Pr(B|defective) = \frac{Pr(B|ad|defective)}{Pr(defective)}$$

$$= 0.4(0.05)$$

$$[0.6(0.02) + 0.4(0.05)]$$