B = Has worked   B^c = Has not worked

A = rich

$rich \cap has\ wrkd$ $rich \cap has\ not\ wrkd$

Law of total probability

$$P(rich) = P(rich \cap has\ wrkd) + P(rich \cap has\ not\ wrkd)$$
$$= P(rich|has\ wrkd) * P(has\ wrkd) + P(rich|has\ not\ wrkd) * P(has\ not\ wrkd)$$