340 Let n be a number, and let P, Q, and R be probabilistic specifications. Prove

(a) $n{\times}P.\,Q \;=\; n{\times}(P.\,Q) \;=\; P.\,n{\times}Q$

(b) $P{+}Q.\,R \;=\; (P.\,R) + (Q.\,R)$

(c) $P.\,Q{+}R \;=\; (P.\,Q) + (P.\,R)$

(d) $x{:=}\,e.\;P \;=\; \langle x{\cdot}\;P\rangle e$

no solution given