Total Padsability Theoren

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0-1 9d 65% of boys afted Jos maths, and is the probability that makes is chosen.

I half of the population is girls.

Solop (molls) = P(boys) & P(molls) + P(gish) P(molls))
= 12 (60) + 12 (40)
= 12 (50) + 12 (40)

0-2 A booler is given to 5 studieds

P, O, R, S, T, 91 the probability of solving the

problem individually 15 1/2, 1/3, 2/3, 1/5, 1/6

people individually the booledsity that the

people is solved.

Ran: P(G) P(G) --- + -- - B(G)(PNG) $= \frac{1}{5}\frac{1}{2} + \frac{1}{5}\frac{1}{3} + \frac{1}{5}\frac{2}{5} + \frac{1}{5}\frac{1}{5}\frac{1}{5}$

= 0.37

0-7 Write the Total probability theoren where for a terms and write the theoren where total probability theoren is und?

P(A) = P(C)P(P(G) + P(C)P(P(G) + (G)P(P(G)).

It is used in Buye's theorem.

P(B/G). P(G) P(B/G). P(G) P(B/G). P(G)