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2. A health study tracked a group of persons for five years. At the beginning of the study, 20% were classified as heavy smokers, 30% as light smokers, and 50% as nonsmokers. Results of the study showed that light smokers were twice as likely as nonsmokers to die during the five year study, but only half as likely as heavy smokers. A randomly selected participant from the study died over the five year period. Calculate the probability that the participant was a heavy smoker.