

Suppose you flip one fair coin and one biased coin whose probability of Heads is $1/3$. What is the probability that you get at least one Head?

- (a) $2/3$
- (b) $1/3$
- (c) $3/4$
- (d) $5/6$
- (e) $1/2$
- (f) $1/9$
- (g) $2/9$
- (h) $1/6$
- (i) $1/4$
- (j) None of these

What is the probability that both coins are Heads given that the fair coin is Heads?

- (a) $1/3$
- (b) $2/3$
- (c) $1/2$
- (d) $1/6$
- (e) $5/6$
- (f) $1/4$
- (g) $3/4$
- (h) $1/9$
- (i) $2/9$
- (j) None of these

What is the probability that the fair coin is Heads given that the coins are not both Heads?

- (a) $2/5$
- (b) $3/5$
- (c) $1/2$
- (d) $1/6$
- (e) $5/6$
- (f) $1/4$
- (g) $2/3$
- (h) $1/3$
- (i) $4/5$
- (j) None of these