67, 82, 84, 85, 86

67

a.

You can't calculate the joint probability knowing the probability of both events occurring, which is not in the information given; the probabilities should be multiplied, not added; and probability is never greater than 100%

b.

A home run by definition is a successful hit, so he has to have at least as many successful hits as home runs.

82.

a.0,00,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17···36

b.0.47

c.0.32

d.0.47

e. No, getting an odd number is not the complement of getting an even number because here sample space starts from 1 to 36 and also contains 0 and f.

f.red and black

g.even and fist dozen are not independent

84.

85.

a.{G1, G2, G3, G4, G5, Y1, Y2, Y3}

b.5/8

c.2/3

d.2/8

e.6/8

f.No, because P(G AND E) does not equal 0.

86.