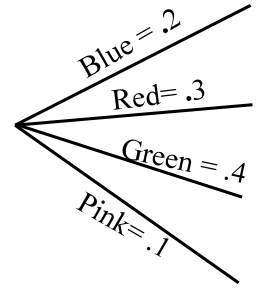
# Probability Trees

The probability of landing on a specific color on a spinner is listed on the probability tree. Calculate each probability as a decimal and a percentage.




1) P(G) = 2) P(R) = 3) P(B) =

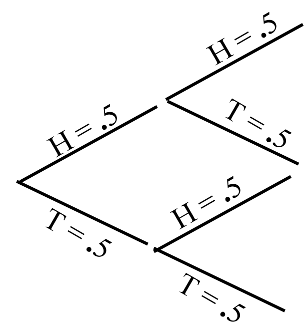
4) P(B or R) = 5) P(R or G) = 6) P(B or R or G) =

7) P(G or P) = 8) P(B or P) = 9) P(P) =

10) P(B or R or G or P) = 11) #5 + #8 = 12) 1 - #6 =

Madison flips a coin twice. The probabilities for each flip are listed on the tree. Calculate each probability as a decimal and a percentage.

H = heads, T = tails




13) P(1st flip heads) = 14) P(1st flip tails) = 15) P(HH or HT or TH) =

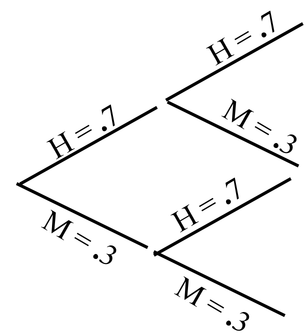
16) P(HH) = 17) P(TH) = 18) P(TT) =

19) P(HT) = 20) P(TH or TT) = 21) # 15 + #18 =

22) P(HH or HT) = 23) P(HH or HT or TH or TT) = 24) 1 - P(HH or HT) =

Randy is a 70% free throw shooter. He is shooting two free throws. Calculate each probability as a decimal and a percentage.

H = hit, M = miss




25) P(hits 1st shot)= 26) P(misses 1st shot)= 27) P(HH or MM)=

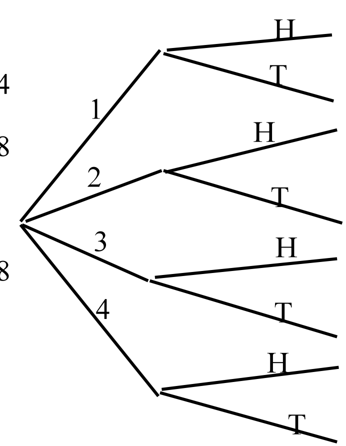
28) P(MH)= 29) P(HM)= 30) 1- P(HH or MM)=

31) P(MM)= 32) P(HH or HM)= 33) # 15 + #18=

34) 1 - P(MH or MM)= 35) P(HH or HM or MH or MM) = 36) 1 - P(HH or HT)=

Paul rolls an odd-shaped, 4 sided die and then flips a coin. Calculate the probability of each outcome as a decimal and a percentage.

Key:
P(1) = .34
P(2) = .08
P(3) = .2
P(4) = .38
P(H) = .5
P(T) = .5




37) P(1 or 2) 38) P(1H)

40) P(3 or 4) 41) P(1T)

42) 1 - P(1 or 2) 43) P(1H or 1T)

44) How do 40 and 43 compare? Why

45) 1 - P(1H or 1T)

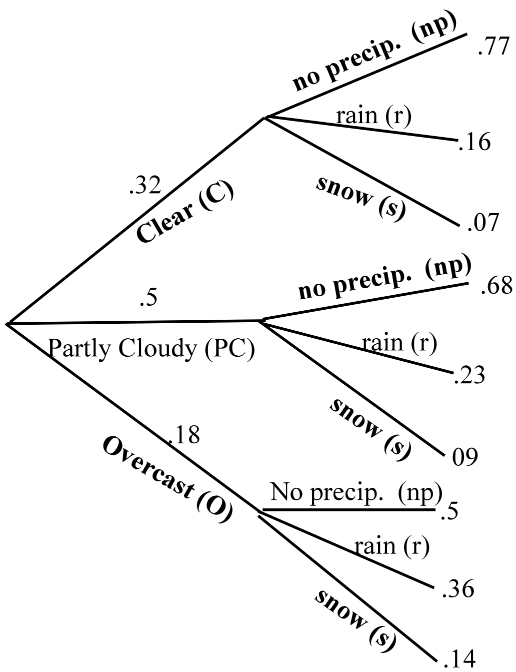
46) P(1 or 2 or 3 or 4) =

47) P(2H or 3H)

48) 1 - P(2H or 3H)

39) P(1H) =
+ P(1T) =
+ P(2H) =
+ P(2T) =
+ P(3H) =
+ P(3T) =
+ P(4H) =
+ P(4T) =
=

The first branch of the probability tree below gives the probability that a day will begin clear, partly cloudy, or overcast in Weather City. The second branch gives the probabilies of different precipitation outcomes.




Give the following probabilities.

49) P (C) = 50) P (PC) = 51) P (O or PC) =

52) P (C or PC) = 53)P (C or O) =

54) P (O and r) = 55) P (PC and r) =

56) P (C and s) = 57) P (C and np) =

58) P (PC and np) = 59) P (O and np)) =

60) P (C or PC or O) = 61) P (O and np OR O and r) =

62) P (C and r OR C and s) =

63) P (PC and np OR PC and r) =

64) P (C and s OR PC and np) =

65) P (PC and r OR C and r) =

66) P (C and np OR PC and np OR O and np) = 67) P (C and np OR C and r OR C and s) =

68) P (C and s OR PC and s OR O and s) = 69) P (O and np OR O and r OR O and s) =

70) P (C and np OR C and r OR C and s OR PC and np OR PC and r OR PC and s OR O and np OR O and r OR O and s) =