Answer on Question \#81528, Math / Statistics and Probability 1. A fair coin is flipped 3 times in a row.
a) Use a tree diagram to find all the possible outcomes.

b) Write the sample space (the set of all possible outcomes. Use H for heads and T for tales).
\{HHH, HHT, HTH, HTT,THH,THT,TTH,TTT\}
c) Find the probably of the coin coming up tales exactly twice.
$P(H=1, T=2)=P(H T T)+P(T H T)+P(T T H)=$
$=0.5(0.5)(0.5)+0.5(0.5)(0.5)+0.5(0.5)(0.5)=0.375$
d) Find the probably of the coin coming up tales at least twice

$$
P(T \geq 2)=P(H T T)+P(T H T)+P(T T H)+P(T T T 0=
$$

$$
=0.5(0.5)(0.5)+0.5(0.5)(0.5)+0.5(0.5)(0.5)+0.5(0.5)(0.5)=0.5
$$

Answer provided by https://www.AssignmentExpert.com

