

Cloud 9 Tutorials

F.A. Cup Draw Tutorial Exercise

Complete the probability distribution table to show the probability of obtaining m all-Premier League matches when t Premier League teams qualify for the quarter-final draw.

Leave your answers involving binomial coefficients and indices in order to establish patterns in the results.

	P (m = 0)	P (m = 1)	P (m = 2)	P (m = 3)	P (m = 4)
t = 0	1	0	0	0	0
t = 1	1	0	0	0	0
t = 2					
t = 3					
t = 4					
t = 5					
t = 6					
t = 7	0	0	0	1	0
t = 8	0	0	0	0	1