

1. Copy and complete the frequency chart below for each dial.

Symbol	Dial 1	Dial 2	Dial 3
BAR	2	1	1
STRAWBERRY	1	8	
GRAPE	7		
APPLE			
CHERRY			
PEAR			

2. a) In how many ways can you obtain 3 BARS?  
 b) How many possible combinations (including repeats) are there?  
 c) What is the probability of obtaining 3 BARS?
2. Find the probabilities of obtaining all the other winning combinations.
3. Using the Payout Chart, your expected winnings in 10 pences are  
 $40 \times (\text{probability of 3 BARS}) + 5 \times (\text{probability of 3 STRAWBERRIES}) + \dots$   
 but you must take off your initial payment of one 10 pence.  
 What is the expected gain or loss for each play on the machine?