 a) Sam is running a game at the local fayre to raise money for charity. In the game, you roll two sixsided dice. You win if their sum is a 7. The game costs 50p to play, and if you win you get a chocolate bar. The chocolate bars cost Sam £1 for a pack of 3. 180 people are expected to play the game. How much money should Sam expect to raise for charity? 		 b) Robbie is running a game at the local fayre to raise money for charity. In the game, you flip three coins. You win if you flip three heads or three tails. The game costs £1 to play, and if you win you get a big bag of sweets. The bags of sweets cost Robbie £1.50. 120 people are expected to play the game. How much money should Robbie expect to raise for charity? 		 c) Charlie is running a game at the local fayre to raise money for charity. In the game, you flip a coin and roll a die. You win if you flip 'heads' and roll a factor of 6. The game costs 20p to play, and if you win you get a lollipop. The lollipops cost Charlie £1 for a pack of 12. 180 people are expected to play the game. How much should Charlie expect to raise for charity?
What is the probability that a player wins?	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	What is the probability that a player wins?	HHH TTH HHT THT HTH HTT THH TTT P(winning) $=\frac{2}{8}=\frac{1}{4}$	
How many players do we expect to win?	$\frac{1}{6}$ of $180 = 30$	How many players do we expect to win?	$\frac{1}{4}$ of $120 = 30$	
How much will this cost Sam?	30 chocolate bars $30 \div 3 = 10$ 10 packs cost £10	How much will this cost Robbie?		
How much will Sam get from players?	$180 \times \pounds 0.50 = \pounds 90$	How much will Robbie get from players?		
How much will Sam raise for charity?	$\pounds 90 - \pounds 10 = \pounds 80$	How much will Robbie raise for charity?		
		BACKWARD	FADED MATHS	