## Finding Expected Values from Probability

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(a)					(b)						
The table s biased dice w from 1 to 6 Estimate the	nd or rolls	n each s the c of time	of the lice 30	e nun )0 tim	The table shows the probabilities that a biased four-sided spinner will land on each of the letters from A to D. Jo spins the spinner 200 times. Estimate the number of times it will land on B.						
Number	1	2	3	4	5	6	Letter	Α	В	C	D
Probability	0.1	0.3	0.15	0.15	0.2	0.1	Probability	0.23	0.21	0.36	0.2
	4	5			42						
(c)					(d)						
The table shows the probabilities that a biased four-sided dice will land on each of the numbers from 1 to 4. The probability of it landing on a 2 is the same as it landing on a 3. Mohid rolls the dice 600 times. Estimate the number of times it will land on a 1 or a 3.							The table shows the probabilities that a biased five-sided spinner will land on each of the numbers from 1 to 5. The probability that the spinner lands on a 4 is twice the probability that it lands on a 5. Suzy spins the spinner 500 times. Estimate the number of times it will land on a 3 or a 4.				
Number	1		2	3		4	Number	1	2	3 4	5
Probability	0.32	2	0.2	0.2	0	.28	Probability	0.2	0.16 0.	.19 <b>0.3</b>	0.15
	31	2			245						
(e)					(f)						
The table shows the probabilities that a biased dice will land on each of the numbers from 1 to 6. The probabilities the the dice will land on a 2, 3 or 4 are in the ratio 5: 3: 4. Misbah rolls the dice 1200 times. Estimate the number of times it will land on a prime number.							The table shows the probabilities that a biased four-sided spinner will land on each of the letters from A to D. The probability that the spinner lands on B is 30% more than the probability it lands on A. Omar spins the spinner 400 times. Estimate the number of times it will land on B or C.				
Number	1	2	3	4	5	6	Letter	А	В	C	D
Probability	0.14	0.2	0.12	0.16	0.25	0.13	Probability	0.25	0.325	0.2	0.225
	68	}4			210						