Finding Expected Values from Probability (b) (a) The table shows the probabilities that a The table shows the probabilities that a biased dice will land on each of the biased four-sided spinner will land on each numbers from 1 to 6. Yuri rolls the dice 300 of the letters from A to D. Jo spins the times. Estimate the number of times it will spinner 200 times. Estimate the number of land on a 4. times it will land on B. Letter Α В C Number D 6 0.23 0.36 **Probability** 0.1 0.3 0.15 0.2 0.1 Probability 0.2 (c) (d) The table shows the probabilities that a The table shows the probabilities that a biased four-sided dice will land on each of biased five-sided spinner will land on each the numbers from 1 to 4. The probability of of the numbers from 1 to 5. The probability it landing on a 2 is the same as it landing that the spinner lands on a 4 is twice the on a 3. Mohid rolls the dice 600 times. probability that it lands on a 5. Suzy spins Estimate the number of times it will land on the spinner 500 times. Estimate the a 1 or a 3. number of times it will land on a 3 or a 4. 1 2 3 2 3 Number 4 Number 1 5 Probability 0.32 0.28 Probability 0.2 0.16 0.19 (e) (f) The table shows the probabilities that a The table shows the probabilities that a biased four-sided spinner will land on each biased dice will land on each of the of the letters from A to D. The probability numbers from 1 to 6. The probabilities the that the spinner lands on B is 30% more the dice will land on a 2, 3 or 4 are in the than the probability it lands on A. Omar ratio 5: 3: 4. Misbah rolls the dice 1200 spins the spinner 400 times. Estimate the times. Estimate the number of times it will number of times it will land on B or C. land on a prime number. Α В C Letter D 1 2 3 5 Number 4 6 Probability 0.225 0.2 Probability 0.14 0.25 0.13