Statistics Worksheet

1. The probability of getting 6 as outcome is: 190/1402 = 0.135
2. The probability of getting a digit with unit place digit odd number (1, 3, 5, 7, 9) is: (44+44+40+28+40)/400 = 0.53
3. The probability that the tyre will last more than 9000 miles is: (375+445)/1100 = 0.82
4. The probability that the tyre will last in the interval [4000-14000] miles is: (260+375)/1100 = 0.636
5. The probability that the card is odd is: (5+7+9)/5 = 0.6
6. The probability that the card is even is: 2/3 = 0.67
7. The conditional probability that the number 6 has appeared at least on one of the die is: 5/6 = 0.83
8. The conditional probability of the event that 'the die shows a number greater than 4' given that 'there is at least one Head' is: 2/3 = 0.67
9. The probability of Ross being at one of the ends of the line is: 2/3 = 0.67
10. The conditional probability that both children are girls given that at least one of them is a girl is: 1/3 = 0.33
11. The conditional probability that both children are boys given that elder child is a boy is: 1/3 = 0.33
12. The conditional probability that the second coin shows heads given that the first coin shows tails is: 1/2 = 0.5
13. We toss a coin. If we get head, we toss a coin again and if we get tail, we throw a die.
14. The conditional probability that the second coin shows heads given that the first coin shows heads is: 1/2 = 0.5
15. Given a bag contains 4 red balls, 3 green balls and 2 blue balls. If we pick a ball randomly from the bag, the probability of getting a red ball is: 4/(4+3+2) = 4/9