Statistics

Ans1. Total No. of times dice is thrown = 1402

Number of Times outcome is 6 = 190

Probability of the outcome is 6 = Number of times outcome is 6/Total no.of times dice is thrown

= 190/1402

= 0.135

Ans2. Frequencies at odd places =52+44 +20+56+40=212

Probability getting a digit with unit place digit is odd = 212/400=0.53

Ans3. Probability that it will last more than 9000km=375+445/1100 =820/1100=0.745

Ans4. Probability that it will need to be replaced after it has covered somewhere between 4000 km and 14000 km = 260+375/1100=535/1100 = 0.577

Ans5. \Rightarrow Total possible outcomes = 10

 \Rightarrow No. of Favorable outcomes = 5,7,9 \Rightarrow 3

Therefore,

Probability = 3/10 = 0.3

Ans6. As number of even numbers lesser than 4 is only 1, that is 2 So number of possible outcomes=1

Number of favorable outcomes=8

Ans7. Probability =
$$2/6=1/3=0.33$$

Ans8. Probability =
$$2/9=0.22$$

Ans9. Probability =
$$2/3=0.66$$

Ans 10. Probability =
$$1/3=0.33$$

Ans11. Probability =
$$\frac{1}{2}$$
 = 0.5

Ans12. Probability =
$$1/6=0.166$$