Lesson 3 Assignment

Probability and Odds – Part B

Work slowly and carefully. If you are having difficulty, go back and review the appropriate *Lesson*.

For full marks, show all calculations, steps, and/or explain your answers.

Total marks: 15

9.   Two dice are rolled. The odds in favour of rolling a sum of 11 on the two dice are $1:17$.

(1)   a.   Complete the table.

favourable outcomes	
unfavourable outcomes	
total outcomes	

(2)   b.   Determine the probability that a sum of 11 will be rolled. Express your answer as a fraction.

10.   There are 10 pencils, 3 pens, and 14 markers in a bin.

(2)   a.   Determine the odds in favour of choosing a pen.

(2) b. Determine the odds against choosing a marker.

(2) c. Determine the probability of choosing a pencil. Express your answer as a fraction.

11. Marika is notified that she has won a prize. There are a total of 25 prizes.

Prize	Frequency
$100 cash	1
$25 gift card	8
free movie ticket	14
Fitbit®	2

(2) a. Determine the odds in favour of Marika winning a $100 cash prize or a Fitbit®.

(2)   b.   Determine the odds against Marika winning a $25 gift card.

(2)   12.   The odds against choosing a chocolate chip cookie from a pile of cookies is $2:11$. What is the probability of choosing a chocolate chip cookie? Express your answer as a fraction.