DATA HANDLING
Subtopic: CHANCE AND PROBABILITY

Section 1

1. Mark T for True and F for False

   1a. If a dice is thrown, the probability of getting a number greater than 6 is 1.

   1b. The probability of getting an ace out of a deck of cards is > than 1.

2. Choose the correct answer.

   2a. In a school, only 2 out of 5 students can participate in a quiz. What is the probability that the chosen student picked at random makes it to the competition ?

       a) 20%

       b) 40%

       c) 50%

       d)30%

   2b. On tossing a coin the outcome is

       a) only head

       b) only tail

       c) neither head or tail

       d) both head and tail

3. Fill in the blanks

   3a. The probability of an event which is certain to happen is _____.

   3b. The probability of an event which is impossible to happen is _____.

4. Match the following.

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Column 1	Column 2	Answer here	
a) The next traffic light will be green	1) Certain to happen	a)	
b) A dice when tossed lands up with 8 on top	2) Can happen but not certain	b)	
c) Tomorrow will be a cloudy day	3) Impossible	c)	
d) You are older today than yesterday	4) Can happen but not certain	d)	
e) A tossed coin will land heads up	5) can happen but not certain	e)	

Section 2

5. A coin is flipped to decide which team starts the game. What is the probability that your team will start?

6. There are 6 marbles in a box with numbers 1 to 6 marked on each of them,

   1) What is the probability of drawing a marble with number 2?

   2) What is the probability of drawing a marble with number 5?

7. What is the probability that a student chosen at random out of 3 girls and a boy is a boy?

8. Classify the following as certain to happen, impossible to happen, may or may not to happen.

   a) Getting a number less than 1 on throwing a die

   b) Getting a head when a coin is tossed.

   c) Christmas will be on 25th December.

   d) A team winning the match.

   e) Today moon will not revolve around the earth.

   f) A ball thrown up in the air will fall down after.

Certain to happen	Impossible to happen	May or May-not happen

Section 3

9. A coin is tossed 1000 times with the following consequences HEAD:445 TAIL:555. When a coin is tossed at random what is the probability of getting a (i) tail (ii) head

10. A box contains two pairs of gloves of two colours (black & white). I have picked out a white glove. I pick out one more with my eyes closed. What is the probability that will make 2 pairs?