

Quiz: 1, Module: 1

Date: 21/03/2022

MAT: 3003 Probability , Statistics & reliability

1.	<p>A fair six-sided die is rolled 6 times. What is the probability of getting all outcomes as unique?</p> <p>A) 0.01543 B) 0.01993 C) 0.23148 D) 0.03333</p>
2.	<p>A group of 60 students is randomly split into 3 classes of equal size. All partitions are equally likely. Jack and Jill are two students belonging to that group. What is the probability that Jack and Jill will end up in the same class?</p> <p>A) $\frac{1}{3}$ B) $\frac{19}{59}$ C) $\frac{18}{58}$ D) $\frac{1}{2}$</p>
3.	<p>Consider a tetrahedral die and roll it twice. What is the probability that the number on the first roll is strictly higher than the number on the second roll?</p> <p>Note: A tetrahedral die has only four sides (1, 2, 3 and 4).</p> <p>A) $\frac{1}{2}$ B) $\frac{3}{8}$ C) $\frac{7}{16}$ D) $\frac{9}{16}$</p>
4.	<p>What is the probability that a ball drawn at random from a jar?</p> <p>(a) 0.5 (b) 1 (c) 0 (d) cannot be determined by given function</p>
5.	<p>If in an experiment A and B are two events, then occurrence of event A or B simultaneously is represented by</p> <p>A. A intersection B B. $A + B$ C. $A - B$ D. A union B</p>
6.	<p>Payments received by cheques or cash is an example of</p> <p>A. numerical outcome B. non numerical outcome C. random outcome D. simple outcome</p>

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7.	<p>Probability of second event in situation if first event has been occurred is classified as</p> <ul style="list-style-type: none">A. series probabilityB. conditional probabilityC. joint probabilityD. dependent probability
8.	<p>Marginal probability of independent events and dependent events must be</p> <ul style="list-style-type: none">A. sameB. differentC. oneD. two
9.	<p>A fair six-sided die is rolled twice. What is the probability of getting 2 on the first roll and not getting 4 on the second roll?</p> <ul style="list-style-type: none">A) 1/36B) 1/18C) 5/36D) 1/6E) 1/3
10	<p>Let A and B be events on the same sample space, with $P(A) = 0.6$ and $P(B) = 0.7$. Can these two events be disjoint?</p> <ul style="list-style-type: none">A) YesB) No