ARELLANO UNIVERSITY
Junior High School Department
Juan Sumulong Campus

MATHEMATICS 10
School Year 2025 - 2026

Name: _____ Date: _____
Grade & Section: _____ Teacher: _____

I. Directions: Write **S** if the required probability is simple and write **C** if compound in each of the following items.

_____1. The probability of getting a 4 in rolling a standard die once.
_____2. The probability of choosing a male student for SSG President.
_____3. The probability of getting an odd number and multiples 5 on a die in rolling a standard die once.
_____4. The probability of drawing a spade from the standard deck of cards.
_____5. The probability of choosing a female and an student athlete a class.

II. Directions: For each pair of events, decide whether the events are **Mutually Exclusive (ME)** or **Not Mutually Exclusive (NME)**

6. Rolling on a six-sided die a 3 and an even number on the same roll.
☐ ME ☐ NME
7. Drawing red card and a heart from a standard deck of cards.
☐ ME ☐ NME
8. Choosing a number that is odd and is divisible by 2
☐ ME ☐ NME
9. Drawing a face card and a king
☐ ME ☐ NME
10. Choosing a day that is a weekday and that is Saturday
☐ ME ☐ NME

III. Directions: **Directions:** Match each word problem in **Column A** with the **correct probability (percentage)** in **Column B**. Write the letter of the correct answer.

	Column A	Column B
_____11.	A spinner has 12 equal sections numbered 1–12. What is the probability that it lands on a multiple of 4 or a prime number**?**	A. 40%
_____12.	In a playlist of 30 songs, 12 are pop, 9 are acoustic, and 5 are both. What is the probability that a randomly selected song is pop or acoustic?	B. 48%
_____13.	A jar contains 20 buttons: 7 are large, 6 are blue, and 3 are both. What is the probability of selecting a button that is large or blue?	C. 50%
_____14.	A month is chosen at random. What is the probability that the month has 31 days or starts with the letter "M"**?**	D. 53%
_____15.	In a class of 25 students, 10 prefer group work, 8 prefer individual work, and 4 prefer both. What is the probability that a student prefers group work or individual work?	E. 56%
_____16.	A number from 1 to 20 is chosen at random. What is the probability that the number is a factor of 20 or an even number?	F. 58%
_____17.	A vending machine sells 15 snacks: 6 are chocolate-flavored, 5 are nut-free, and 2 are both. What is the probability of choosing a snack that is chocolate-flavored or nut-free?	G. 60%
_____18.	A bus arrives every 10 minutes. What is the probability a person arrives during the first 3 minutes or the last 2 minutes?	H. 67%
_____19.	From the letters in the word STATISTICS, one letter is chosen at random. What is the probability that the letter is a vowel or the letter S?	I. 70%
_____20.	A 7-day forecast shows 4 sunny days, 2 windy days, and 1 day that is both. What is the probability that a randomly chosen day is sunny or windy?	J. 75%

LIVEWORKSHEETS