

ARELLANO UNIVERSITY
Junior High School Department
Juan Sumulong Campus

MATHEMATICS 10
School Year 2025 - 2026

Name: _____
Grade & Section: _____

Date: _____
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% |