T2

Name: Date: 10/15/2018 (4-5:30 pm)

T2 has two parts, Take-home and In-class. Take-home part is due on 10/17/2018 (Wednesday) at 4 pm. T2 In-class part will be on 10/29/2018. I will return the exam on 10/31st. No Class on Nov 5. *Identify the letter of the choice that best completes the statement or answers the question. (20X5) = 100*

____ 1. The local weather station reports that the chance of sleet is 0.99. Write this probability as a fraction and as a percent.

a. $\frac{99}{100}$ and 99%
c. $\frac{1}{50}$ and 1%
b. $\frac{1}{100}$ and 1%
d. $\frac{99}{50}$ and 99%

____ 2. Ross has a 79% chance of getting a black sticker out of a certain machine. Write this probability as a fraction and as a decimal.

a. $\frac{21}{100}$ and 0.21
c. $\frac{79}{50}$ and 0.79
b. $\frac{21}{50}$ and 0.21
d. $\frac{79}{100}$ and 0.79

____ 3. The chance that Rachel will win a prize is $\frac{21}{50}$. Write this probability as a decimal and as a percent.

a. 0.42 and 42%
c. 0.58 and 42%
b. 0.42 and 2.38%
d. 0.58 and 58%

____ 4. A letter is chosen at random from the 26 letters in the alphabet. What is the probability of choosing a vowel?

a. $\frac{21}{26}$
c. $\frac{5}{21}$
b. $\frac{26}{5}$
d. $\frac{5}{26}$

____ 5. What is the probability of rolling a number greater than 4 on a fair number cube?

a. $\frac{1}{3}$
c. $\frac{1}{2}$
b. $\frac{1}{6}$
d. $\frac{5}{6}$

____ 6. What is the probability of rolling a number less than or equal to 5 on a fair number cube?

a. $\frac{5}{6}$
c. $\frac{1}{3}$
b. $\frac{2}{3}$
d. $\frac{1}{6}$

____ 7. A local weather station forecasted a 93% chance of rain for the weekend. What is the probability that it will not rain over the weekend?

a. 0.07%
c. 70%
b. 700%
d. 7%

____ 8. The probability of drawing a silver ball out of a certain bag is 0.3. What is the probability of not drawing a silver ball?

a. 70
c. 0.07
b. 0.7
d. 0.77

____ 9. The probability of winning a prize at a school raffle is 0.62. What is the probability of not winning a prize at the raffle?

a. 0.48
c. 3.8
b. 0.38
d. 38

____ 10. April has a blue dress, a purple dress, a white dress, and a yellow dress. For shoes, she can choose either dress shoes, sandals, or slippers. How many different outfits can she wear?

a. 24
c. 12
b. 7
d. 14

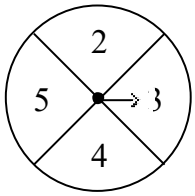
____ 11. At a restaurant, Donald can choose between a roast beef sandwich, a chicken salad sandwich, and a fish sandwich. As a side item he can choose apple slices, yogurt, or a salad. As a drink he can choose juice, water, or tea. If he chooses one sandwich, one side item, and one drink, how many different meals can he choose from?

a. 18
c. 27
b. 9
d. 12

____ 12. A middle school contains 6th, 7th, and 8th grade classes. One student from each grade will be chosen to represent the school in an essay contest. The 6th grade finalists are Manuel, Sarah, Luis, and Eiko. The 7th grade finalists are Benji, Eric, and Sandra. The 8th grade finalists are Hilda, Elizabeth, and Robby. How many different ways can the students be chosen?

a. 27
c. 36
b. 10
d. 15

Greg spins the spinner twice.



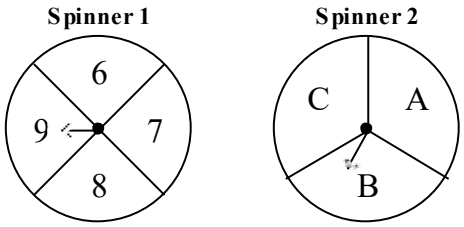
____ 13. What is the probability that it will land on an even number both times?

a. $\frac{1}{8}$
c. $\frac{1}{4}$
b. $\frac{1}{16}$
d. $\frac{1}{2}$

____ 14. What is the probability that the spinner will land on 5 on the first spin and 2 on the second spin?

a. $\frac{1}{16}$
c. $\frac{3}{16}$
b. $\frac{1}{8}$
d. $\frac{1}{4}$

Mrs. Liang spins each spinner one time.



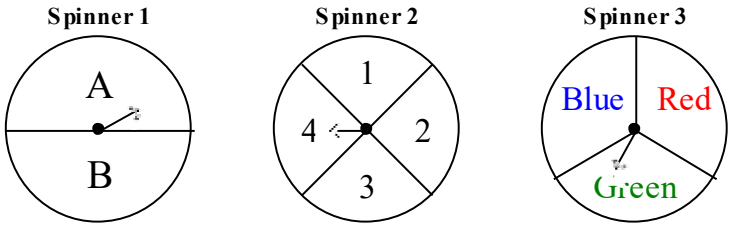
____ 15. What is the probability that the first spinner will land on an odd number and the second spinner will land on a vowel?

a. $\frac{1}{12}$
c. $\frac{1}{3}$
b. $\frac{1}{4}$
d. $\frac{1}{6}$

____ 16. What is the probability that the first spinner will land on 7 and the second spinner will land on C?

a. $\frac{1}{6}$
c. $\frac{1}{4}$
b. $\frac{1}{3}$
d. $\frac{1}{12}$

Jared is going to perform an experiment in which he spins each spinner once.



____ 17. What is the probability that the first spinner will land on A, the second spinner will land on an even number, and the third spinner will land on Blue?

a. $\frac{1}{8}$
c. $\frac{1}{24}$
b. $\frac{1}{12}$
d. $\frac{1}{4}$

____ 18. What is the probability that the first spinner will land on B, the second spinner will land on 3, and the third spinner will land on Green?

a. $\frac{1}{4}$
c. $\frac{1}{12}$
b. $\frac{1}{8}$
d. $\frac{1}{24}$

19. At a political rally, there are 20 Republicans, 13 Democrats, and 6 Independents. If a person is selected at random, find the probability that he or she is either a Democrat or an Independent.
(a) 19/39 (b) 19/40 (c) 29/39 (d) 29/40

20. A single card is drawn at random from an ordinary deck of cards. Find the probability that it is either an ace or a black card.
(a) 7/12 (b) 7/13 (c) 8/13 (d) 7/15