NAME:

PER:



3. Enter these quiz scores into a calculator: 14, 18, 16, 20, 22, 18, 19, 20, 25, 18, 16, 18 a. State the five-number summary.



5. A pair of number cubes is thrown. Find the probability that the numbers match (doubles) **given** that their sum is greater than 8.

P() =

- 6. A pair of number cubes is thrown. Find the probability that their sum is greater than 8 **given** that the numbers match.
 - P() =

7. Write a calculator command using binompdf or binomcdf, then state answer as a percent for the following conditions: A weather report is forecasting a 60% chance of rain for the next 3 days.

- a. What is the probability of it raining exactly 2 of the next three days?
- b. What is the probability of it raining <u>at least</u> 2 of the next three days?
- c. What is the probability of it raining <u>no more than</u> 2 of the next three days?

8. Write a calculator command using binompdf or binomcdf, then state answer as a percent for

the following conditions: An unannounced quiz has 20 true-false questions and you are not prepared for it.

- a. What is the probability of randomly guessing and getting exactly 10 questions correct?
- b. What is the probability of randomly guessing and answering <u>at least</u> 12 questions correctly so you can earn a passing score?
- 9. Using a standard deck of playing cards, **how many** 5-card hands are possible that have 3 face cards <u>and</u> 2 aces?
- 10. A bag contains 4 yellow and 10 red markers. Four markers are drawn at random without replacement. What is the **probability** of drawing 2 yellow markers and 2 red markers?
- 11. How many different ways can the letters in the word *lollipop* be arranged?
- 12. A **single** number cube is rolled twice. Find the **probability** of rolling a 6 on the first toss <u>and</u> an odd number on the second toss.

State if each event is *mutually exclusive* or *NOT mutually exclusive*, then solve for

- 13. the probability of selecting a card from a standard deck and it is a king or an ace.
- 14. the probability of tossing two number cubes and getting a sum greater than 6 or an even sum.

	1	2	3	4	5	6
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2						
3			4			
4						
5			4	20 - 33 -	0	
6				o) (s.	1	

<u>che</u>	ck	ans	swer	:s#5-14				
	1	1	1	2				
	3	5	12	13				
$\frac{5}{6}$ $\frac{270}{1001}$ 1320 1680								
	17.6	2%	25.	17%				
43.2% 64.8% 78.4%								
mutually exclusive								
not mutually exclusive								