## Ch. 14 Test: tomorrow!

- Handwritten notes on a $3 \times 5$ index card may be used.
- A calculator is required.


Is the battery charged?

- Complete review\#1and \#2.
- Refer to ch. 14 Prob/Stats sheet for extra practice (green)
- Study probability notes (gold sheet)

One $3 \times 5$ card of notes may be used on the ch. 14 test. You may write formulas, calculator commands, and examples on both sides of the index card.


The index card will be stapled to your test and handed in on Thursday.

## Some suggestions for index card:

## Calculator commands:

$2^{\text {nd }}$ DISTR
2:normalcdf(lower, upper, $\mu, \sigma)$
To calculate one variable statistics, press: STAT CALC

Normal curve: 68\% 95\%
99.7\%

1:1-Var Stats <enter> $\mathrm{L}_{1}<$ enter>

## Binomial Theorem:

binompdf(\#trials, probability of desired event, \# of occurrences) $\mathrm{n} \quad \mathrm{r}$
binomadif(\#trials, prob of desired event,maximum \# of occulrrencess)
"exactly" $\rightarrow$ binompdf
"at most" or "no more than" $\rightarrow$ binomcdf
"at least" $\rightarrow 1$ - binomcdf (\# trials, prob, occurences - 1)


Mutually exclusive events cannot happen at the same time. $\quad P(A$ or $B)=P(A)+P(B)$

NOT mutually exclusive events are where some objects can satisfy (include) the conditions of both events. $P(A$ or $B)=P(A)+P(B)-P($ both $)$

## Conditional Probability reduces the sample space since an event has already occurred.



## NOT PROVIDED ON TEST!!

- 52 cards $\rightarrow 4$ suits
(spades, hearts, clubs, diamonds)
- Each suit has 13 cards
-Face cards: Jack, Queen, King
- Aces are low unless stated otherwise (Ace =1)


## IMPORTANT:

This PowerPoint of notes isn't all inclusive. You will find other useful formulas, notes, and calculator commands in your
Ch. 14 notes that are not included in this presentation.


## Ch. 14 review\#1 CHECK ANSWERS

## problem \#4

4. Enter the following values into a calculator and sort.

| 8 | 23 | 11 | 34 | 35 | 12 | 15 | 47 | 51 | 61 | 56 | 48 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | 35 | 62 | 49 | 47 | 28 | 44 | 68 | 35 | 42 | 53 |  |

a. Complete the frequency table, then sketch a histogram.
b. Create a stem-and-leaf plot.
c. State the mean, median, mode, and standard deviation.



## check answers \#3-4

$\begin{array}{lllll}14 & 17 & 17.49 & 18 & 20\end{array}$ $\begin{array}{llll}25 & 35 & 38.09 & 42\end{array}$
$\begin{array}{lllllll}1 & 2 & 3 & 3 & 4 & 4 & 6\end{array}$

## Ch. 14 review\#1 CHECK ANSWERS

## problem \#3


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.
b. Sketch a box-and-whisker plot.

$$
\begin{aligned}
\min & =14 \\
Q_{1} & =17 \\
m e d & =18 \\
Q_{3} & =20 \\
\max & =25
\end{aligned}
$$

