| Mon | IUe | Wed | Thu | Fr |
| :---: | :---: | :---: | :---: | :---: |
| Abril 4 | April 5 | April 6 | April 7 | April 8 |
| review \#\| | $\begin{gathered} \text { ch. } 14 \\ \text { group } \\ \text { guiz } \end{gathered}$ | review \# 2 | Ch 14 Test | SBAC <br> practice |

SBAC English testing for $11^{\text {th }}$ grade

## BRING A CHARGED CHROMEBOOK AND ARRIVE ON TIME!



April 11
April 12
April 13
April 14
NO SCHOOL
SBAC math testing for $11^{\text {th }}$ grade


## Ch. 14 review sheet \#1

## check answers for reminder and \#1-2:

| 4.01 | 10.56 | 34 | 47.5 | 54.67 | 68 | 68 | 95 | 95 | 95 | 95.99 | 97.10 | 99.7 | 99.7 | 99.7 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Reminder from 14.6 notes, Normal Distribution:
The Empirical Rule states that about
$68 \%$ of the data is within one standard deviation of the mean.
$95 \%$ of the data is within two standard deviations of the mean.
$\mathbf{9 7 . 7} \%$ of the data is within three standard deviations of the mean.

1. The mean of a set of normally distributed data is $\mathbf{7 5}$ and the standard deviation is 8 . Sketch a graph of the situation.
2. The mean of a and the standard situation.


State answer to pa
a. What percent c
b. What percent c


Ch. 14 review \#1

1. The mean of a set of normally distributed data is 75 and the standard deviation is 8 . Sketch a graph of the situation.


## Ch. 14 review\#1


a. What percent of the data is in the interval 67-83? Just write your answer!
b. What percent of the data is in the $95 \%$
interval 59-91? Just write your answer!
c. What percent of the data is in the interval 51-99? Just write your answer! $99.7 \%$

Ch. 14 review\#1
2. The mean of a set of normally distributed data is 128 and the standard deviation is 4. Sketch a graph of the situation.


## Ch． 14 review\＃1

 $\xrightarrow[116]{\longrightarrow}$a．What percent of the data is in the interval 116－140？Just write your answer：
b．What percent of the data is in the interval 120－136？Just write your answer

$$
\pm 2 \sigma
$$

c．What percent of the data is in the interval $128-136$ ？show work！$\frac{95 \%}{2}=47.5 \%$
d．What percent of the data is in the interval 124－128？Show work！$\frac{68}{2}=34 \%$

## Ch. 14 review\#1


e. What percent of the data is in the interval 125-131?
Write the calculator command and your answer.

$$
\text { normalcdf }(125,131,128,4) \approx 54.67 \%
$$

f. What percent of the data is in the interval 118-136?
Write the calculator command and your answer.

$$
\begin{aligned}
& \text { Write the calculator command and your answer. } \\
& \text { normalcdf }(118,136,128,4) \approx 97.10 \%
\end{aligned}
$$

## Ch. 14 review\#1


g. What percent of the data is above 133 ?

Write the calculator command and your answer.

$$
\text { normaledf }(133,1000
$$

h. What percent of the data is below 121?

Write the calculator command and your answer.

$$
\text { normalcdf }(-1000,121,128,4) \approx 4.01 \%
$$

i. What percent of the data is above 121?

No calculator command, show work using answer from part h!

$$
100 \%-401 \%=99.99 \%
$$



