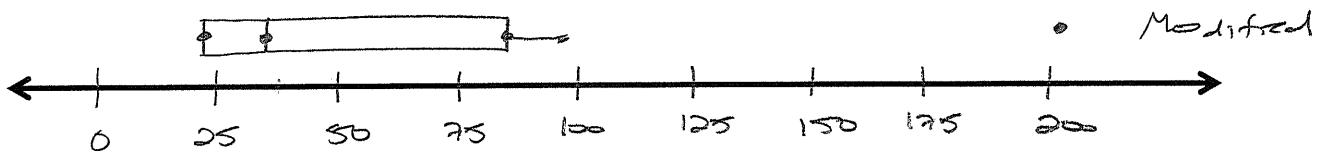In #1-4, use the following data for the salaries **in thousands** of the nine employees of Execo.
{200, 98, 69, 48, 34, 24, 24, 24, 24}

1) Give the five number-summary for Execco salaries.

$Min = 24$　　$Q_1 = 24$　　　$Med = 34$　　　$Q_3 = 83.5$　　$Max = 200$

2) Draw a box plot of the data.

3) Does the set contain any outliers under the 1.5 x IQR criterion? If so, name them. If not explain why not.

$IQR = Q_3 - Q_1 = 83.5 - 24 = 59.5$

$24 - 1.5(59.5) = -65.25$

$83.5 + 1.5(59.5) = 172.75$

Yes, outlier is 200, or $200,000

4) Find the variance and the standard deviation of the data. ROUND TO HUNDREDTHS.

x_i	$x_i - \bar{x}$	$\left(x_i - \bar{x}\right)^2$
200	139.44	19443.51
98	37.44	1401.75
69	8.44	71.23
48	-12.56	157.75
34	-26.56	705.43
24	-36.56	1336.63
24	-36.56	1336.63
24	-36.56	1336.63
24	-36.56	1336.63
SUM	-.04	27126.19

$\frac{545}{9}$

$\bar{X} = 60.56$

♦ not exactly zero due to rounding.

VARIANCE = 3390.77

$\frac{27126.19}{9-1}$

STANDARD DEVIATION =

58.23

$\sqrt{3390.77}$

In #5-7, Use the table below on seasonally adjusted U.S. domestic imports for 2007.
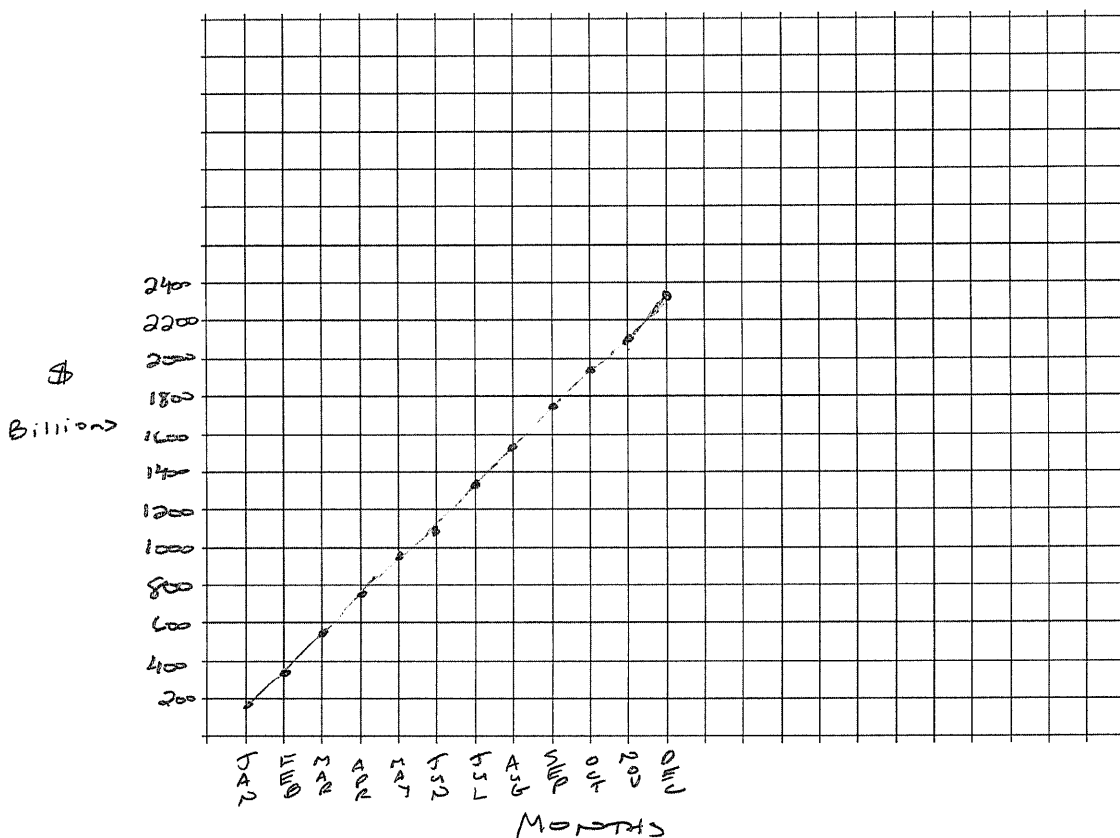
U.S. Total Imports In Goods and Services ($ billions)

TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Total (per month)	187	186	192	191	193	195	197	197	198	200	205	203
Cumulative Total	?	?	?	?	?	?	?	?	?	?	?	?
Source: U.S. Census Bureau	187	373	565	756	949	1144	1341	1538 8th	1736	1936	2141	2344

5) Compute the cumulative total imports for the last twelve months.

6) Draw a **cumulative line graph** for imports.

U.S. Cumulative Total Imports

7) What percent of the total cost of U.S. domestic imports occurred by the end of the eighth month?

$$1538/2344 = \boxed{65.62}$$