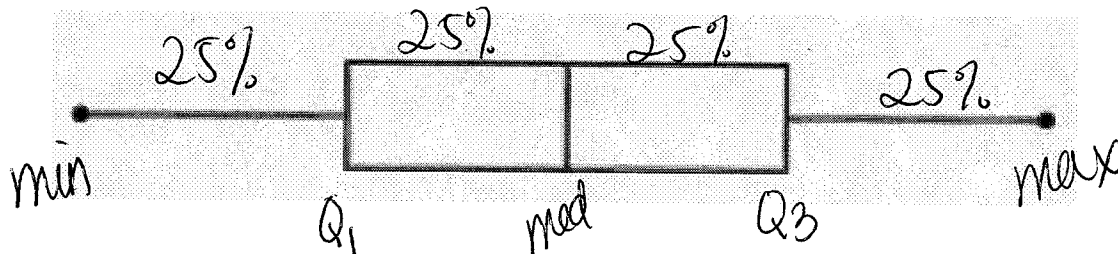


Final Review

Module 7/Module 8

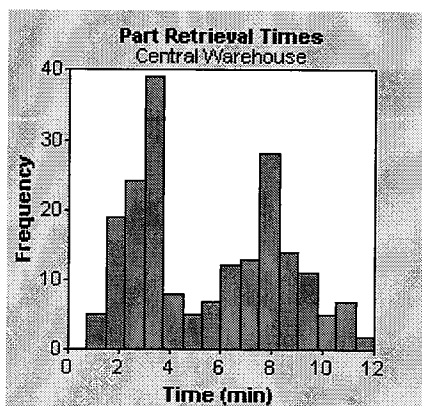
- Label the min, Q1, med, Q3, and max. Also label the percent that represents every section.



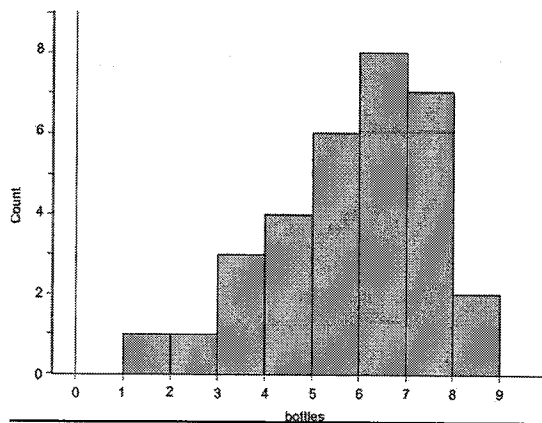
- Label if the following are scatter plots, two way table, or a histogram

- Do adults and children prefer dogs or cats? (Two variable) Two-way table
- What are the grades of students in Math class? (One Variable) histogram
- How does GPA compare to the hours a student studies? (Two variable) scatter plot

- Circle the following words that best describe the histogram



- unimodal
- bimodal
- multimodal



- normal/symmetric
- skewed left ← look at the tail
- skewed right

4. Answer the following questions using the table below.

Concession Stand Sales				
	Soda	Water	No Drink	Total
Hot Dog	50	62	46	158
Pizza	120	58	4	182
No Food	30	20	10	60
Total	200	140	60	400

$$\frac{\text{hot dog}}{\text{total}}$$

a. Which percent of people surveyed got hot dogs?

$$\frac{158}{400} = 39.5\%$$

b. Which percentage of people that got no drink also got a hot dog? *column*

$$\frac{46}{60} = 77\%$$

c. Which percentage of people that ordered pizza, also got soda? *row*

$$\frac{120}{182} = 65.9\%$$

d. What percentage of people surveyed got a hot dog and water?

$$\frac{62}{400} = 15.5\%$$

no hot dog → 46
no drink → 60

$$\frac{\text{soda}}{\# \text{ pizza}}$$

$$\frac{\text{hot dog} + \text{water}}{\text{total}}$$

5.

	Soda	Water	No Drink	Total
Hot Dog	32%	39%	29%	100%
Pizza	66%	32%	2%	100%
No Food	50%	33%	17%	100%
Total	50%	35%	15%	100%

c. Which percentage of people that got no food ordered no drink?

$$17\%$$

d. Which percentage of people that got pizza got water?

$$32\%$$

	Soda	Water	No Drink	Total
Hot Dog	25%	44%	77%	40%
Pizza	60%	41%	7%	46%
No Food	15%	15%	16%	14%
Total	100%	100%	100%	100%

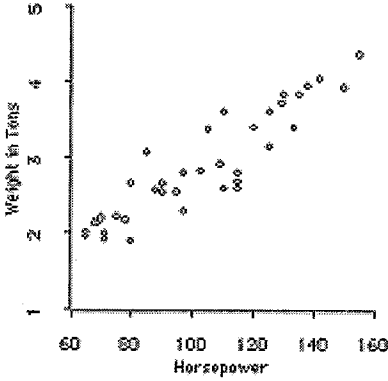
a. Which percentage of people that got soda ordered pizza?

$$60\%$$

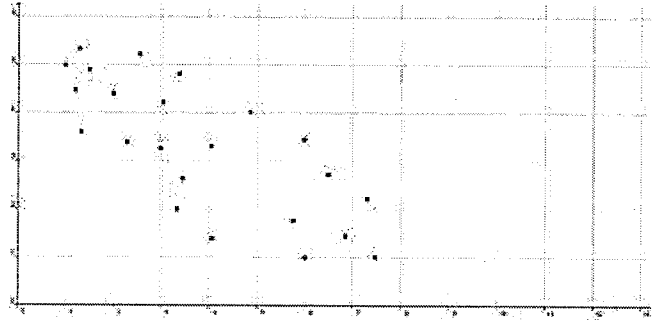
b. Which percentage of people that got water got no food?

$$15\%$$

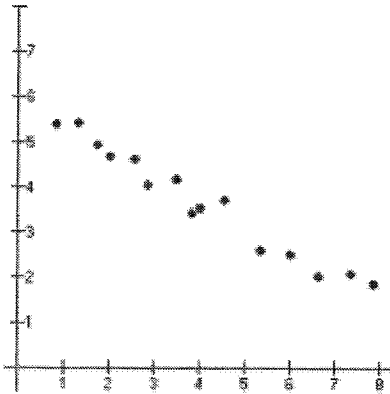
6. Match each graph with the following correlation coefficients. (0.55, -0.3, 0.69, -0.89)



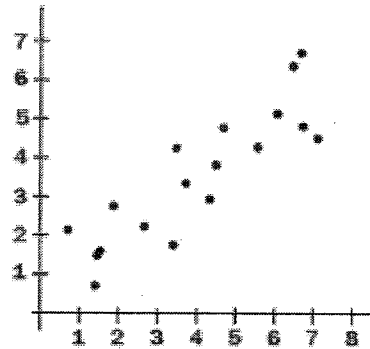
0.69



-0.3

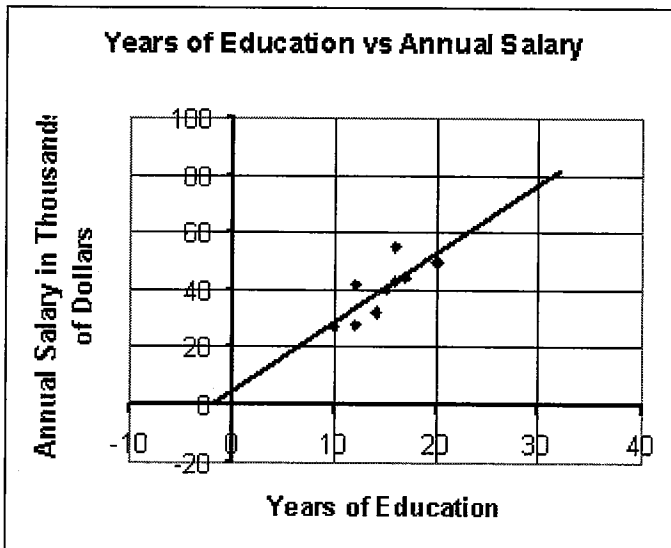


-0.89



0.55

7. Using the graph below, answer the following questions.



Line of best fit: $y = 2.5x + 4.6$

a. What does the y intercept mean in this situation?

The salary you receive after 0 years of education

b. What does the slope mean in this situation?

the salary increase per 1 year of education

c. After 40 years of education, what would you predict the salary amount would be?

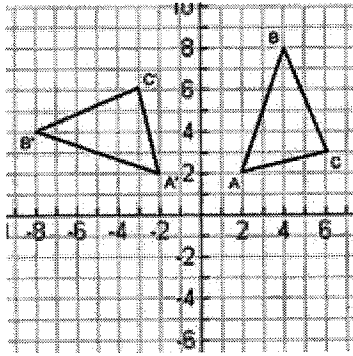
$$y = 2.5(40) + 4.6$$

104.6 K

\$104,600

Module 6

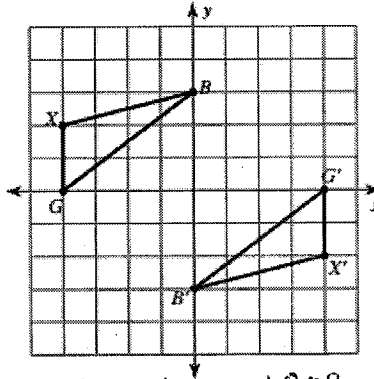
8. Name the transformation that takes place in each of the following.



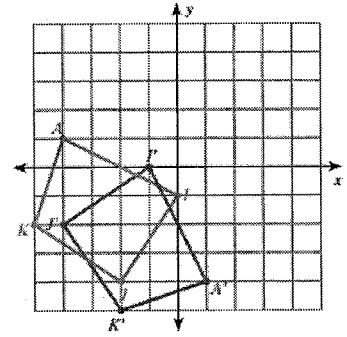
rotation CCW
90° around (0,0)

or
rotation CW
270° around origin

Mod 5

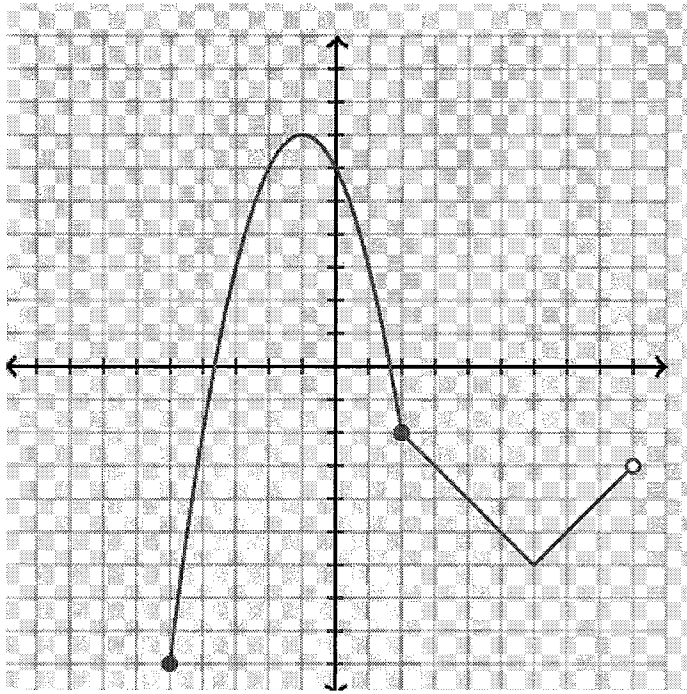


rotation 180°
around origin
(CW or CCW)



reflection over
the line $y=x$

<p>9. In $f(x+h)-k$, what do h and k represent?</p> <p>h is a horizontal shift left</p> <p>k is a vertical shift down</p>	<p>10. If $f(x) = g(x) + 5$, $g(x) = 9x + 2$</p> <p>$f(x) = 9x + 2 + 5$</p> <p>$f(x) = 9x + 7$</p>
<p>11. If $f(x) = g(x) - 7$, and $f(x) = 4x - 3$</p> <p>$4x - 3 = g(x) - 7$</p> <p>$g(x) = 4x + 4$</p>	<p>12. If $h(x) = g(x) + 1$, and $g(x) = 5(2^x)$</p> <p>$h(x) = 5(2^x) + 1$</p> <p>$h(x) = 5(2^x) + 1$</p>



Min: -9 or (-5, -9)

Max: 7 or (-1, 7)

Increasing:

$(-5, -1) \cup (6, 9)$

** always ()*

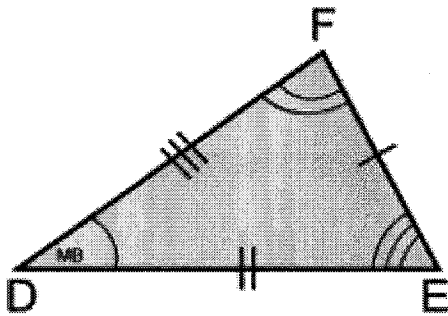
Decreasing:

$(-1, 6)$

Constant: N/A

Domain: $[-5, 9)$

Range: $[-9, 7]$



Create triangles following the postulate provided

MANY OPTIONS FOR THESE!

<p>SAS</p>	<p>SSS</p>	<p>AAS</p>
<p>ASA</p>	<p>AAA—NOT CONGRUENT!</p>	<p>SSA—NOT CONGRUENT!</p>

