Name				Date		CI	ass	
1. The frequency table below shows the ages of the employees at Marianna's Auto Shop. Marianna has 56 male employees and 34 female employees.					4. What is the mean and standard deviation of the data set {42, 65, 85, 85, 89, 90}?			
a. Fill in the	I in the frequency table.				A mean: 61; standard deviation: 15.3			
	Gender				B mean: 76; standard deviation: 17.3			
Age	Male	Female			C mean: 85: standard deviation: 15.3			
18–27		5	15					
28-37					Dm	iean: 85.5; s	standard	deviation: 17.3
38-47	18		28					
48–57	12	17						
Total								
 b. How many 38–47 year olds work at the auto shop? c. Does Marianna employ more 18–27 year olds or 48–57 year olds? How many more? 2. Marion surveyed 55 girls and 25 boys and asked about their preferred sport. In all, 22 girls preferred soccer, and 7 boys preferred soccer. What 				5. sho	Which state	ment be	est describes the dot plot	
is the conditional relative frequency that a student's favorite sport is not soccer given that the student is					A :	skewed left		C skewed right
50y :						X X	X X X X X X X X 24 26 2	X X X X X + + + + + + + + + + + + + + +
3. For the set {-30, -25, -9, 10, 15, 30}, would					6. Which of the following correlation coefficients			
included?					mul	caies a wed	r iii eai	
					A	-0.98	С	0
A mode B media	n	○ Yes ○ Yes	○ No ○ No		В	-0.61	D	0.89
C mean		⊖ Yes	⊖ No					
D range		○ Yes	⊖ No					



Name	Date Class
15. What is the tenth term of the geometric sequence $\frac{1}{25}$, $\frac{1}{5}$, 1, 5?	19. Solve $36^2 = 6^{x-7}$ What is the value of <i>x</i> ?
16. What is $f(x) = 8(2)^x$ evaluated for $x = -5$?	20. A nature preserve had approximately 726 Gray Wolves in 1998. The population has been decreasing at a rate of 2% per year. Write a function that gives the population in terms of <i>y</i> years after 1998.
17. Complete the table of values for the function $x = f(x) = 0.10(1.4)^x$ -2 -1 0 1 2	ction. 21. Which set of ordered pairs satisfies an exponential equation? A {(0, 0), (1, 1), (2, 4), (3, 9)} B {(0, 5), (1, 8), (2, 11), (3, 14)} C {(0, 2), (1, 4), (2, 8), (3, 16)} D {(0, -2), (1, -4), (2, -6), (3, -8)}
18. Use the values in the table in #17. Add the graph of the function to the graph of the parent function below. $\begin{array}{c} & & \\ $	22. In the figure, $m \angle KJL = 32^{\circ}$. $(5x + 3)^{\circ}$ $(3x + 11)^{\circ}$ M What is the value of <i>x</i> ?
Describe the end behavior of the graph.	What is m∠ <i>KJM</i> ?







Name	
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45.

Date Class

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43. Determine whether the triangles are congruent. Explain your reasoning.



44. Determine whether the triangles are congruent. Explain your reasoning.



 $\triangle ABC \cong \triangle EDC$. BD = 24. Find each value.

