

Using 30, 33, 27, 54, 33, 20, 19, and 42, complete the chart below.

Mean		Minimum	
Median		Maximum	
Mode		Lower Quartile (Q1)	
Range		Upper Quartile (Q3)	
MAD		Interquartile Range	

1. Create a Box-and-Whisker plot for the data set above.



2. Are there any outliers for the data set above? If so, state what they are.

3. Is the data set above an example of normal distribution? If not, explain.

4. What must you have to create a box and whisker plot?

5. What is the 5-number summary?

6. What percent of the data set is between the minimum and the median?

7. What percent of the data set is between the lower quartile (Q1) and the maximum?

8. This stem-and-leaf plot gives the number of items correct on a test for ten students. What is the mean, median and mode of the data set?

Stem		Leaves
2		4 6 9
3		2 3 3 5 7
4		0 0

Mean: _____

Median: _____

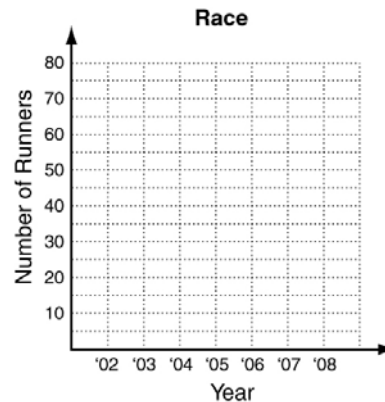
Mode: _____

9. A restaurant is keeping track of the customers who enter and whether or not they eat in the restaurant. The results are shown below. What is the approximate probability that a customer from this group did not eat?

Customers by Gender			
	Men	Women	Totals
Ate	7	11	
Didn't Eat	2	5	
Totals			

10. The table shows the number of runners in a race for four years. Draw a scatter plot and trend line.

Year	'02	'03	'04	'05
Number of Runners	17	28	43	52



11. Which is the best prediction for the number of runners in 2007?

- A. 40
- B. 72
- C. 100
- D. 53

12. Describe the correlation of your scatter plot in question #10.

13. The table shows the relationship between the average temperature in the last few months of winter for a particular town and the average pollen count in the first few months of spring. Which equation could represent a line of best fit for this data?

- A. $y \approx 2.91x - 64.55$
- B. $y \approx 29.1x - 6455$
- C. $y \approx -29.1x + 6.455$
- D. $y \approx -291x + 64.55$

Temp (°F)	31	33	30	35	32
Pollen Count (grains/m ³)	25	32	23	37	28

14. What would most likely be the correlation coefficient (r) for the following scatter plot?

- A. $r \approx 0.922$
- B. $r \approx 0.356$
- C. $r \approx -0.351$
- D. $r \approx -0.913$



15. The high temperatures for Lawrenceville, GA, for October 1-12, 2010, are given below. Use this data to create a dot plot.

High Temperatures (°F)						
60	53	56	64	66	62	53
64	58	65	67	64		



16. Males and Females at a school were polled to see if they liked school lunch. The results of the poll are shown in the two-way table. How many students were polled?

	Yes	No
Males	45	57
Females	62	29

17. A television station wants to know how its newest show is performing. The results of their poll of High School students are shown below. Create a relative frequency table.

Viewership by Grade			
	9 th /10 th Grade	11 th /12 th Grade	Totals
Watch	98	71	
Don't Watch	52	19	
Totals			

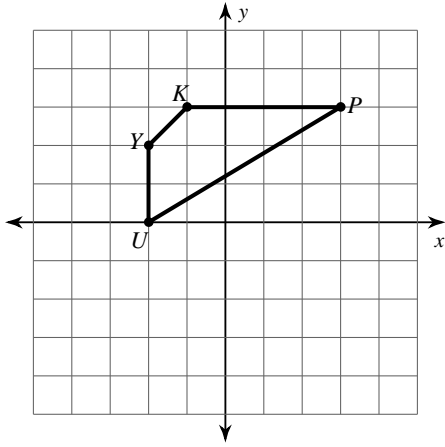
Viewership by Grade (Relative)			
	9 th /10 th Grade	11 th /12 th Grade	Totals
Watch			
Don't Watch			
Totals			

Transformation Practice

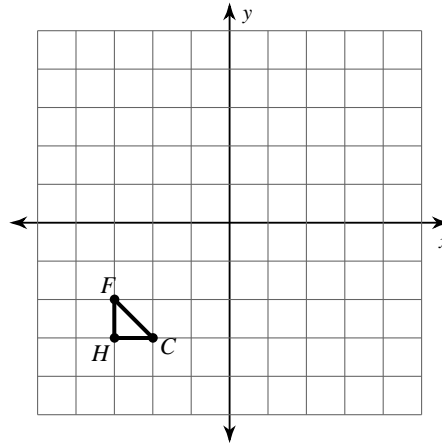
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Graph the image of the figure using the transformation given.

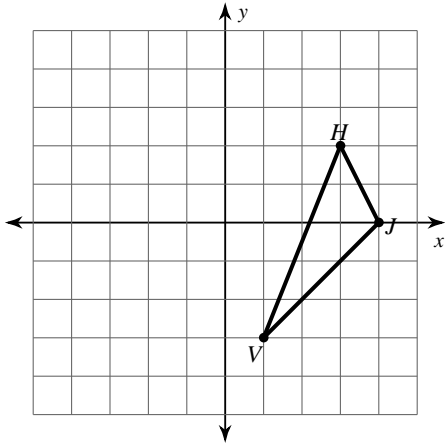
1) translation: 2 units left and 3 units down



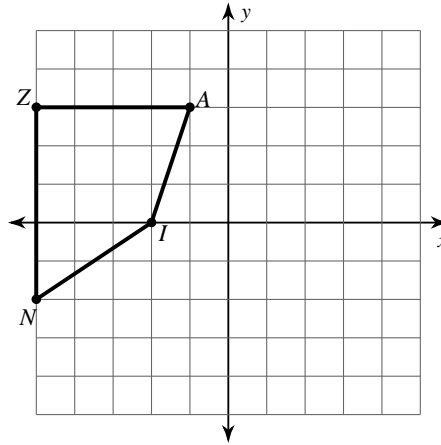
2) rotation 90° counterclockwise about the origin



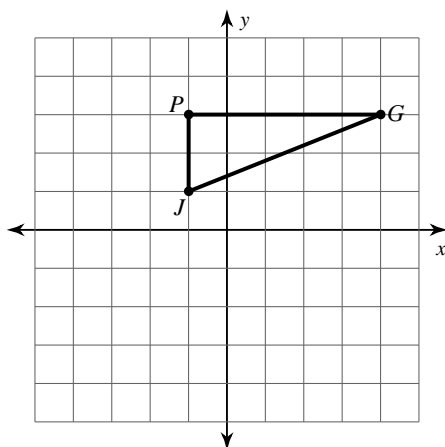
3) reflection across $y = -x$



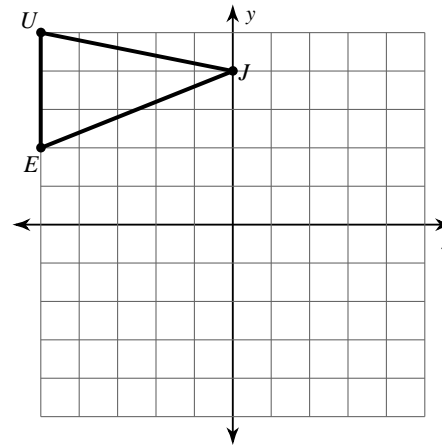
4) dilation of 0.5



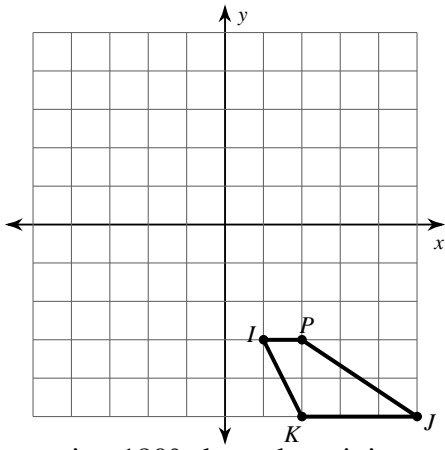
5) dilation of $\frac{1}{4}$



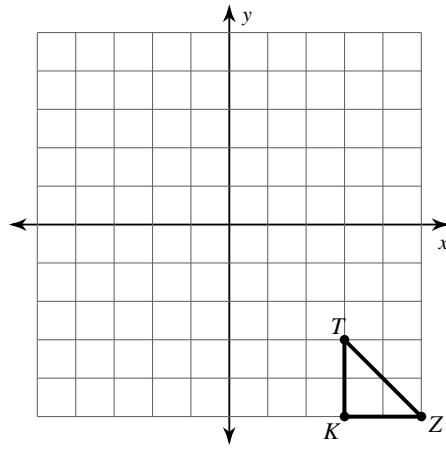
6) rotation 90° counterclockwise about the origin



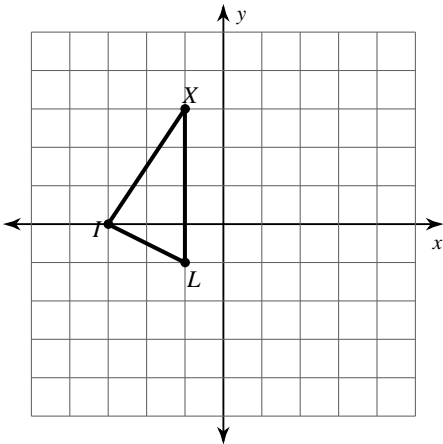
7) reflection across the x-axis



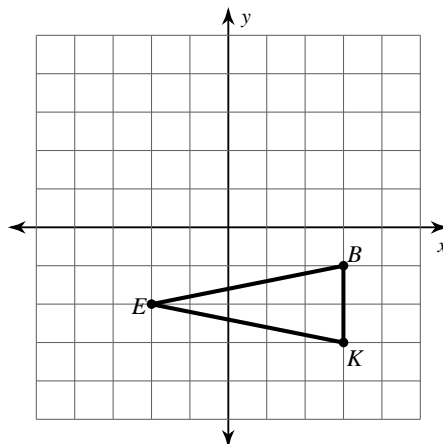
8) reflection across the y-axis



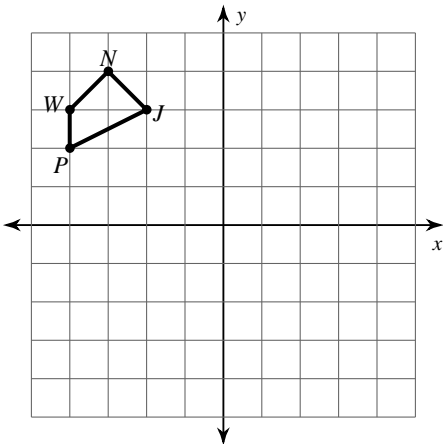
9) rotation 180° about the origin



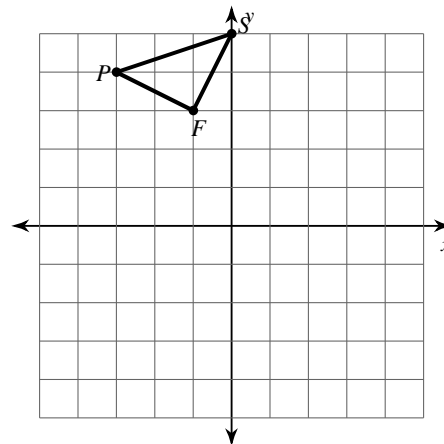
10) dilation of 1.5



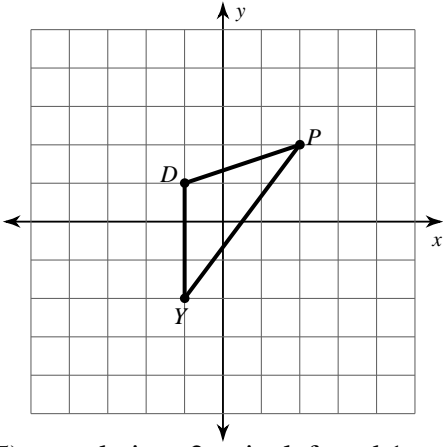
11) translation: 5 units down



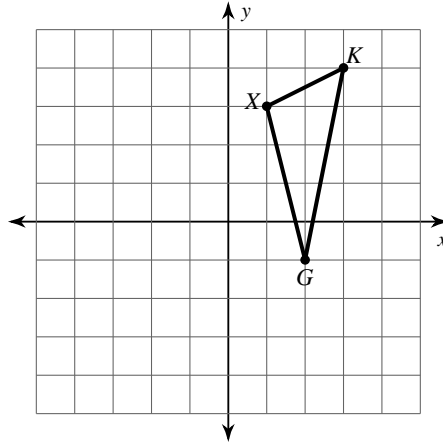
12) rotation 180° about the origin



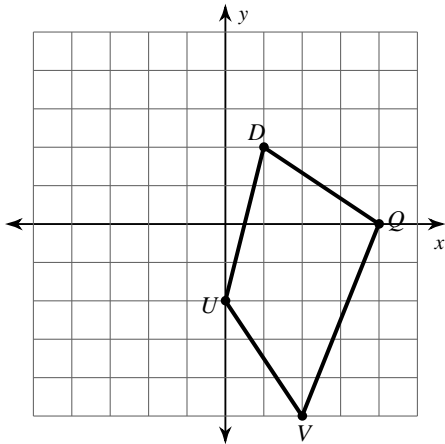
13) dilation of 1.5



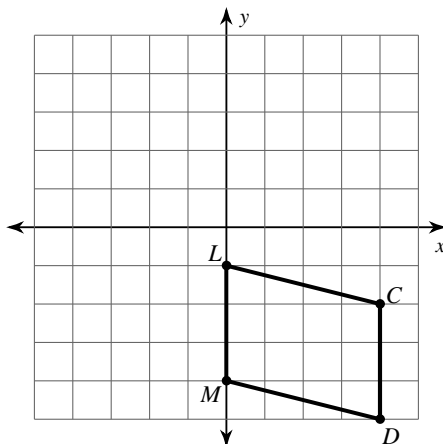
14) dilation of 0.25



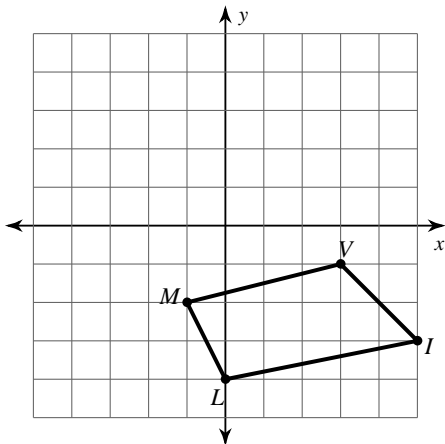
15) translation: 2 units left and 1 unit up



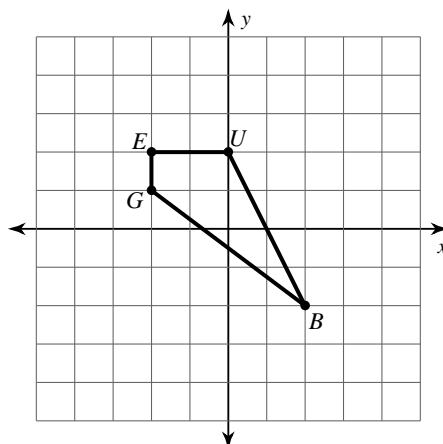
16) reflection across $y = -x$



17) translation: 1 unit left and 2 units up



18) dilation of 2

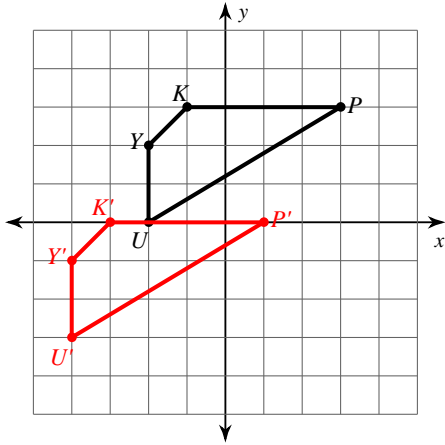


Transformation Practice

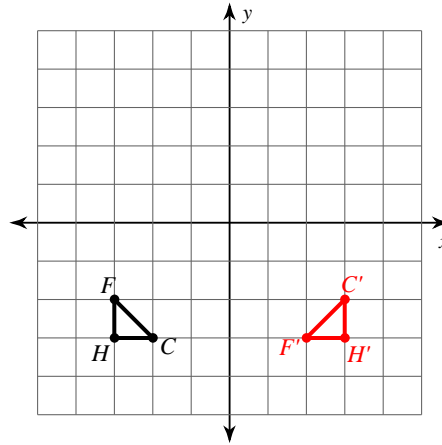
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Graph the image of the figure using the transformation given.

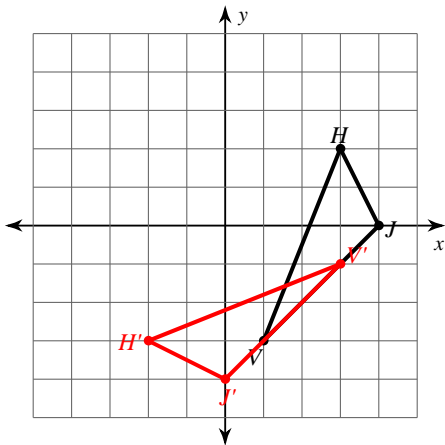
1) translation: 2 units left and 3 units down



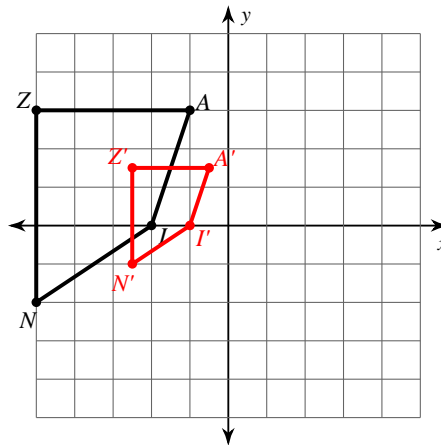
2) rotation 90° counterclockwise about the origin



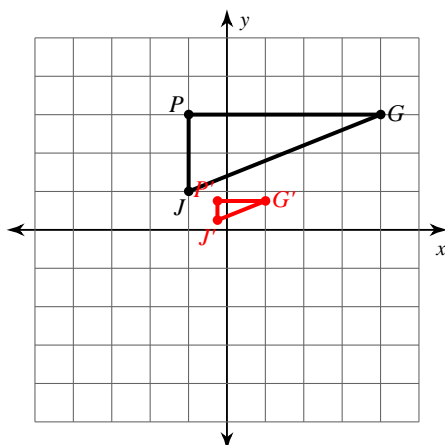
3) reflection across $y = -x$



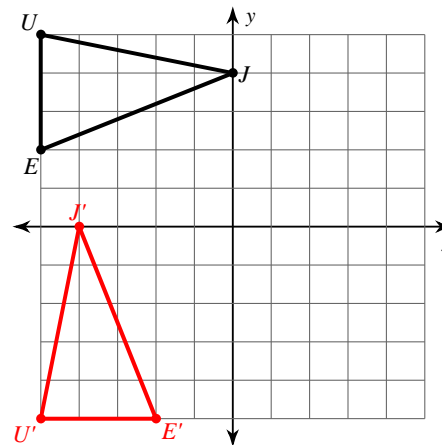
4) dilation of 0.5



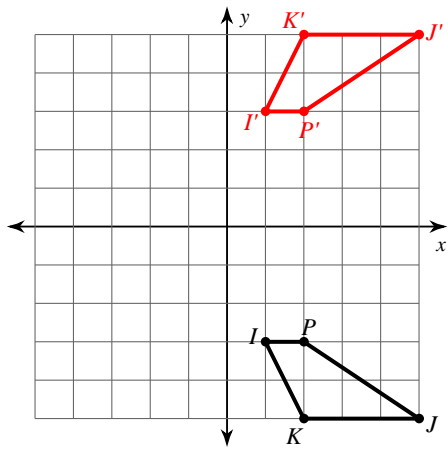
5) dilation of $\frac{1}{4}$



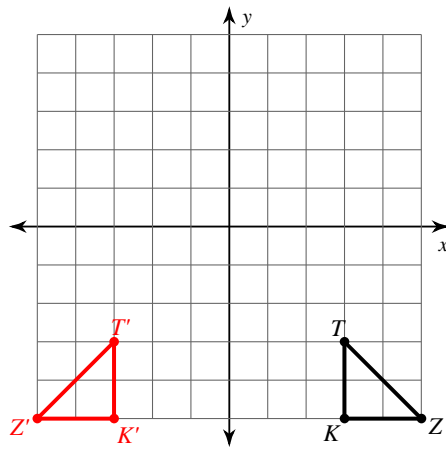
6) rotation 90° counterclockwise about the origin



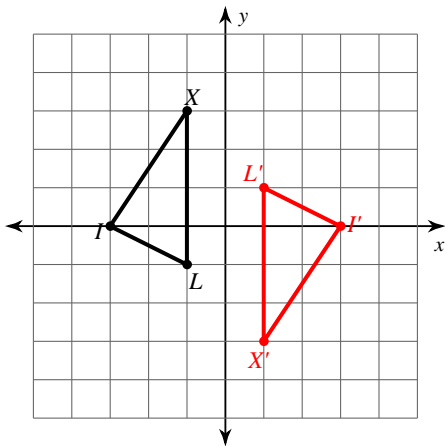
7) reflection across the x-axis



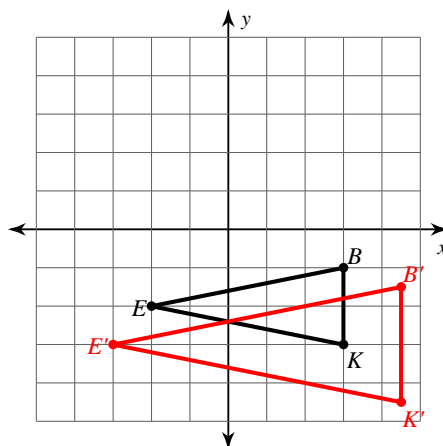
8) reflection across the y-axis



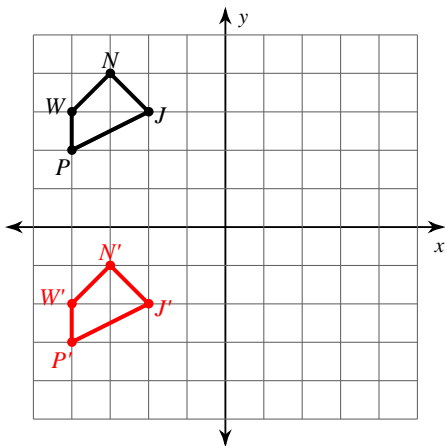
9) rotation 180° about the origin



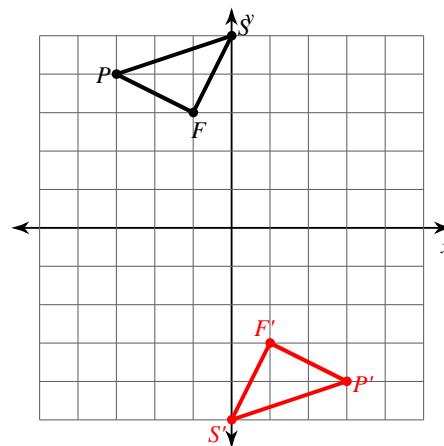
10) dilation of 1.5



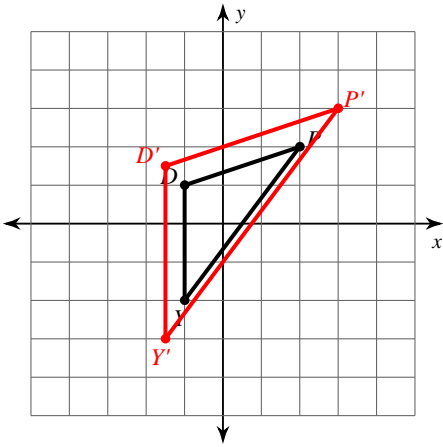
11) translation: 5 units down



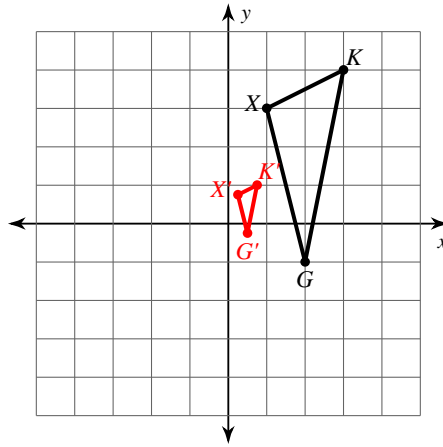
12) rotation 180° about the origin



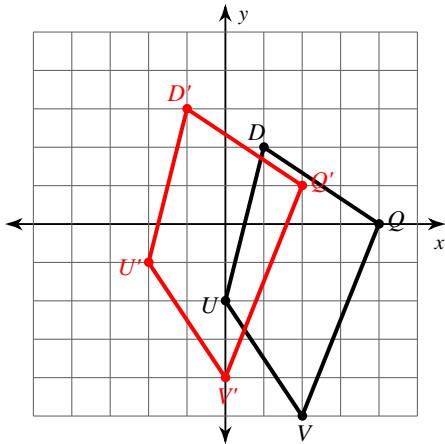
13) dilation of 1.5



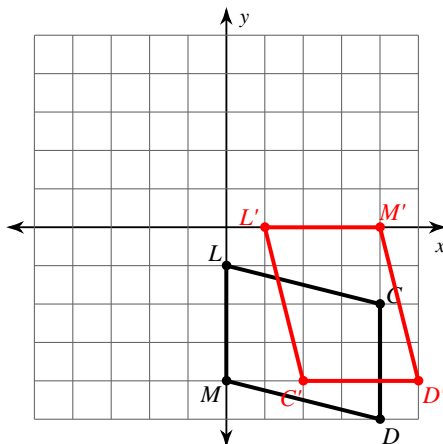
14) dilation of 0.25



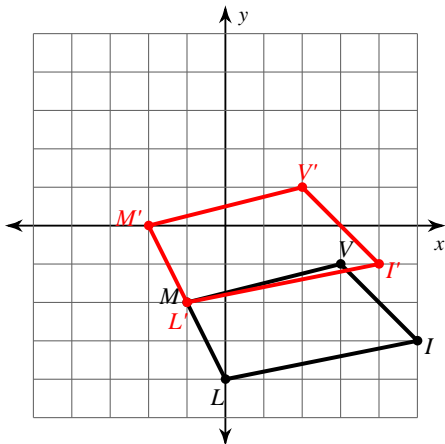
15) translation: 2 units left and 1 unit up



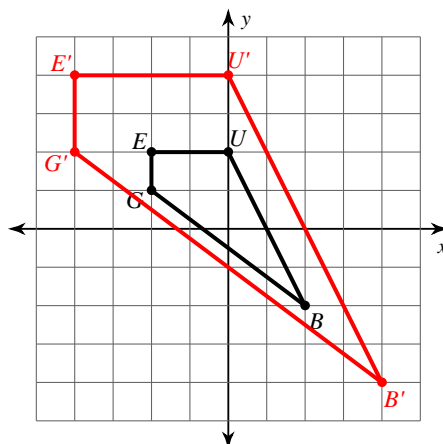
16) reflection across $y = -x$



17) translation: 1 unit left and 2 units up



18) dilation of 2



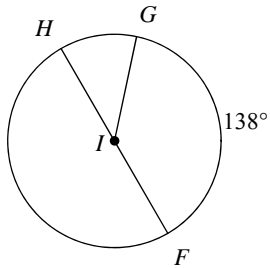
Circles Review

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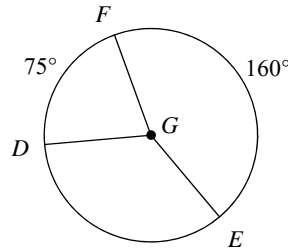
Date _____ Period _____

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

1) $m\angle HIG$

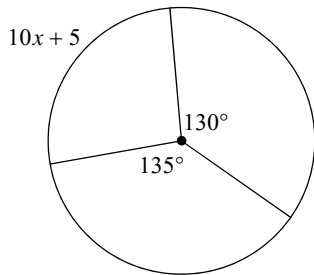


2) $m\angle EGD$

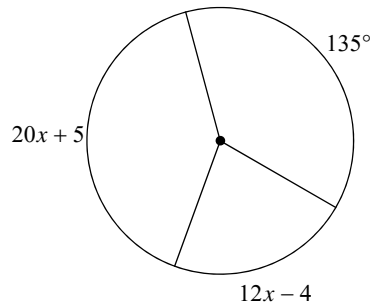


Solve for x. Assume that lines which appear to be diameters are actual diameters.

3)

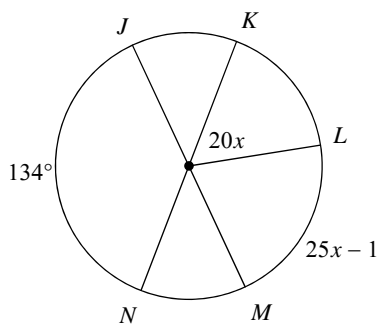


4)

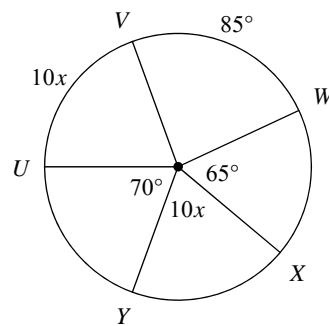


Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

5) $m\widehat{LM}$

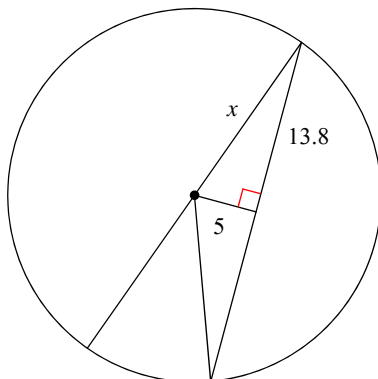


6) $m\widehat{XY}$

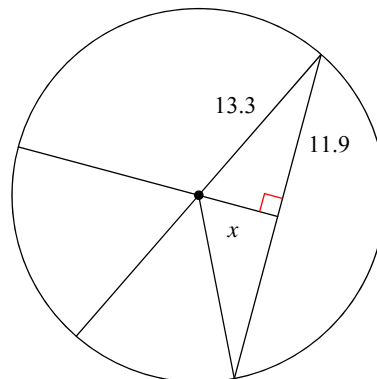


Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

7)

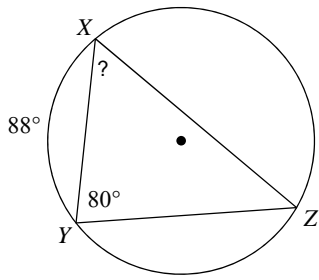


8)

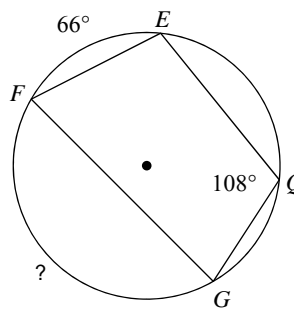


Find the measure of the arc or angle indicated.

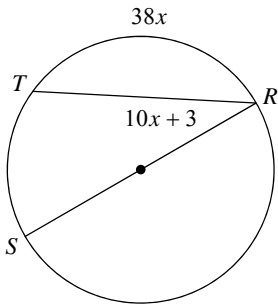
9)



10)

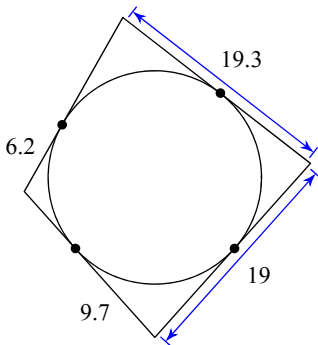


11) Find $m\angle SRT$



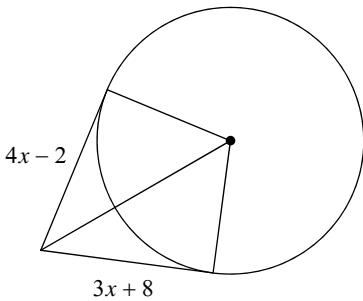
Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.

12)



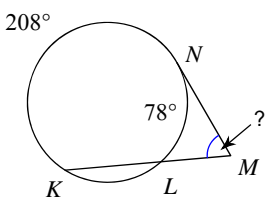
Solve for x . Assume that lines which appear to be tangent are tangent.

13)

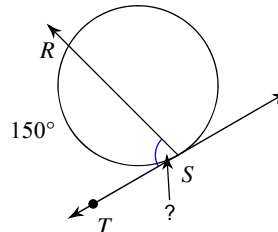


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

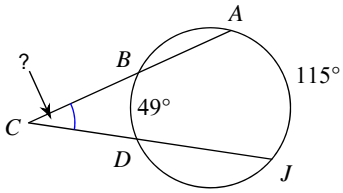
14)



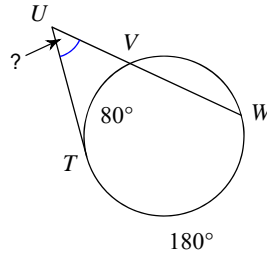
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16)

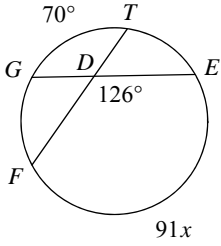


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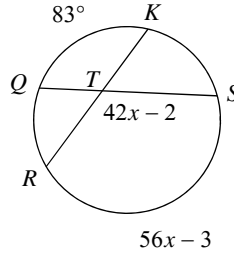


Solve for x . Assume that lines which appear tangent are tangent.

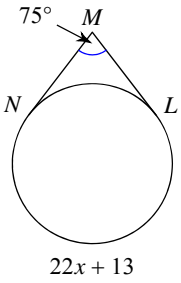
18)



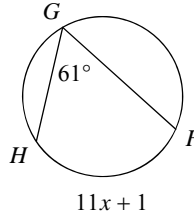
19)



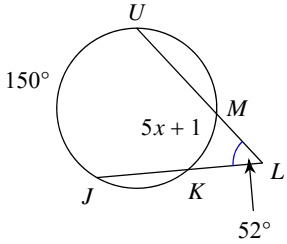
20)



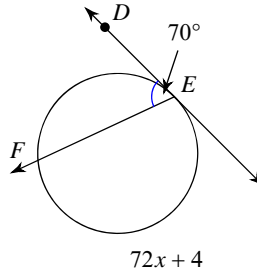
21)



22)

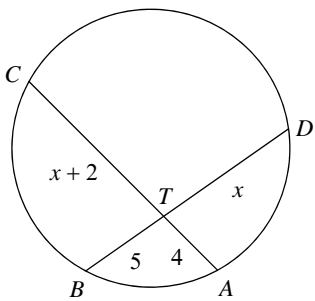


23)

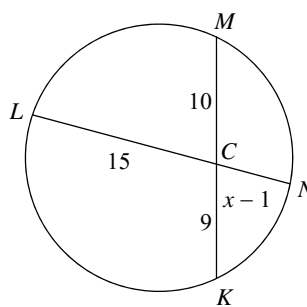


Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

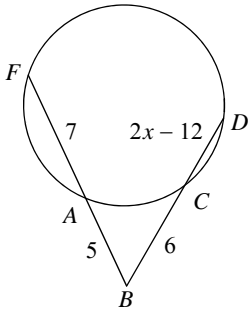
24) Find BD



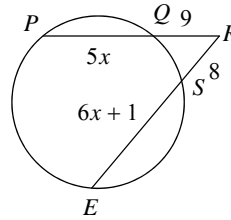
25) Find CN



26) Find DB

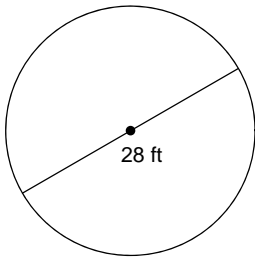


27) Find PQ

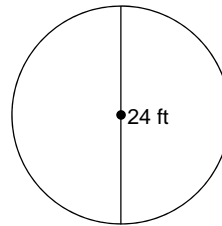


Find the area of each. Use your calculator's value of π . Round your answer to the nearest tenth.

28)

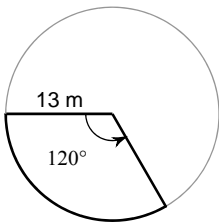


29)

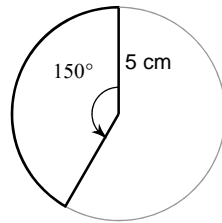


Find the area of each sector.

30)

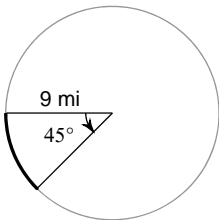


31)

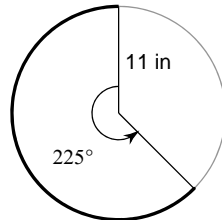


Find the length of each arc.

32)



33)



Find the area of each sector.

34) $r = 2$ mi, $\theta = 90^\circ$

35) $r = 5$ yd, $\theta = 315^\circ$

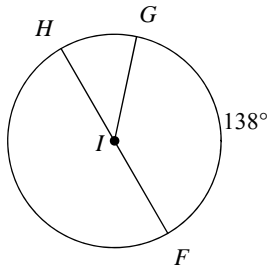
Circles Review

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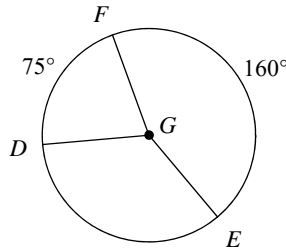
Date _____ Period _____

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

1) $m\angle HIG$ 42°

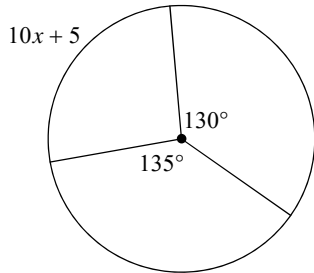


2) $m\angle EGD$ 125°

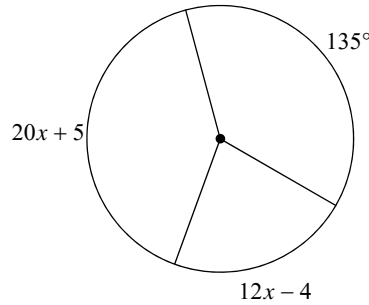


Solve for x . Assume that lines which appear to be diameters are actual diameters.

3) 9

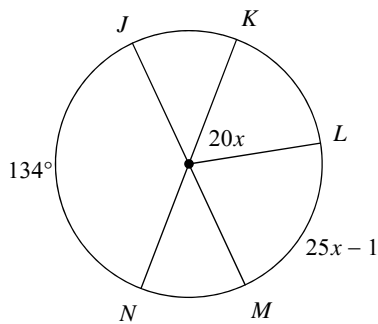


4) 7

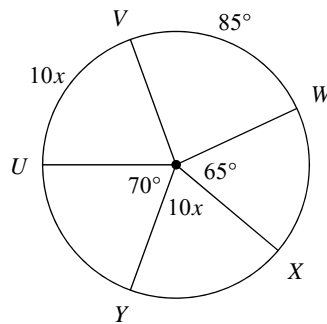


Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

5) $m\widehat{LM}$ 74°

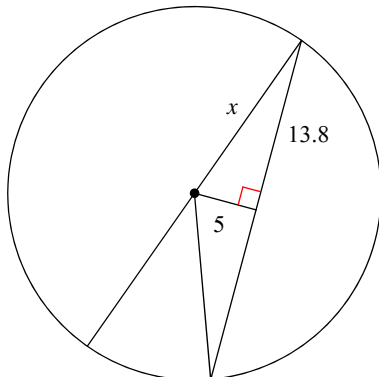


6) $m\widehat{XY}$ 70°

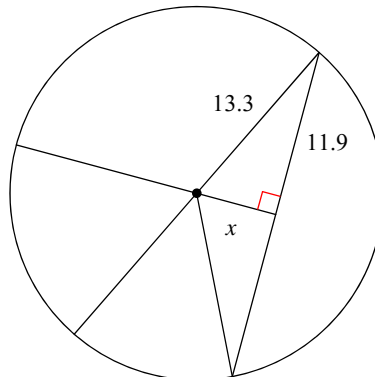


Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

7) 14.7



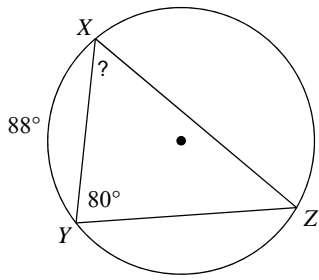
8) 5.9



Find the measure of the arc or angle indicated.

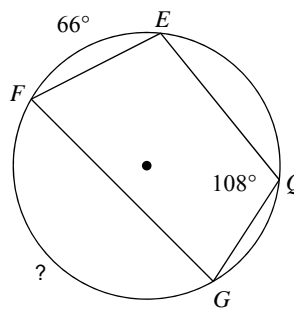
9)

56°



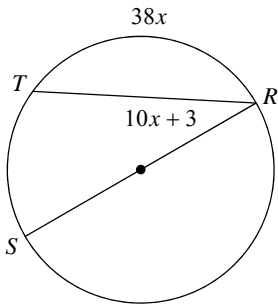
10)

150°



11) Find $m\angle SRT$

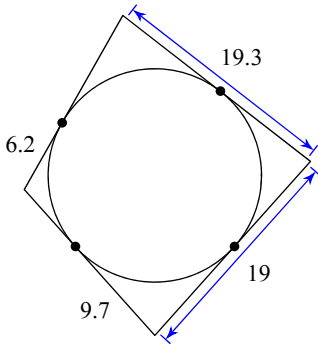
33°



Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.

12)

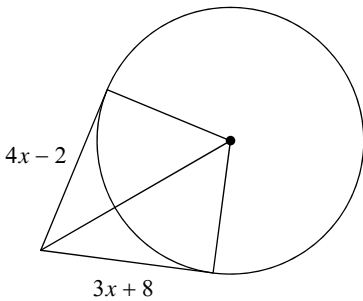
70.4



Solve for x . Assume that lines which appear to be tangent are tangent.

13)

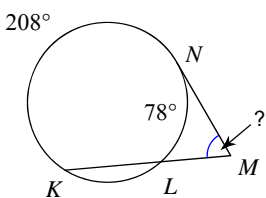
10



Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

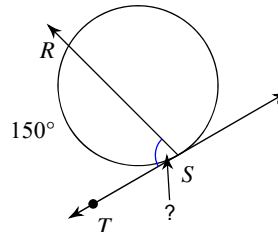
14)

65°

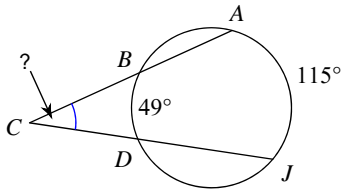


15)

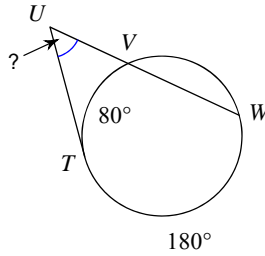
75°



16) 33°

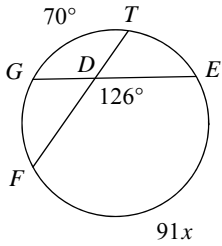


17) 50°

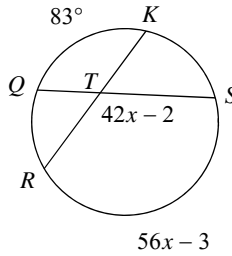


Solve for x . Assume that lines which appear tangent are tangent.

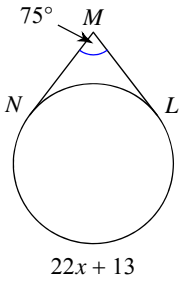
18) 2



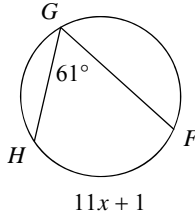
19) 3



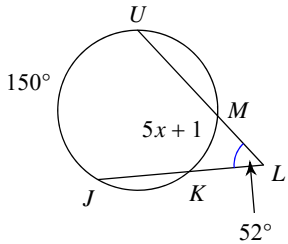
20) 11



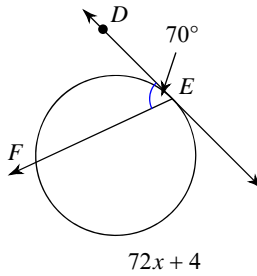
21) 11



22) 9

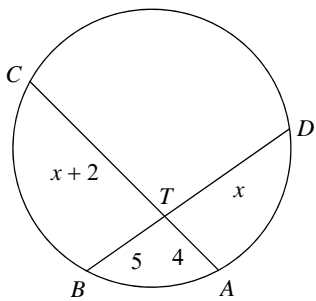


23) 3

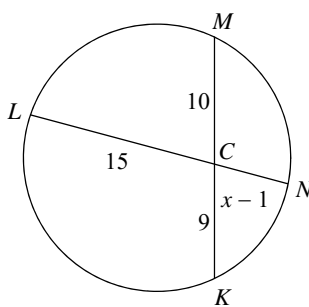


Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

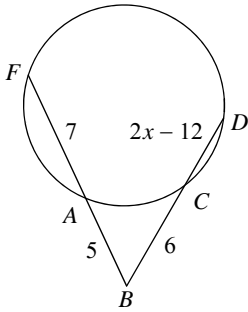
24) Find BD 13



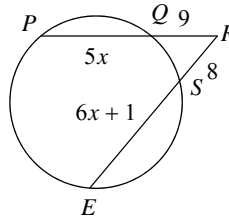
25) Find CN 6



26) Find DB 10

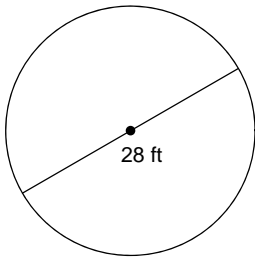


27) Find PQ 15

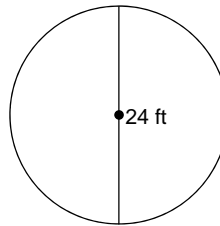


Find the area of each. Use your calculator's value of π . Round your answer to the nearest tenth.

28) 615.8 ft²

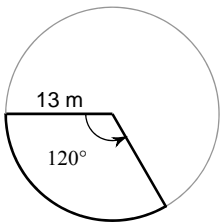


29) 452.4 ft²

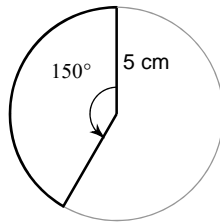


Find the area of each sector.

30) $\frac{169\pi}{3}$ m²

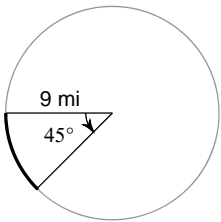


31) $\frac{125\pi}{12}$ cm²

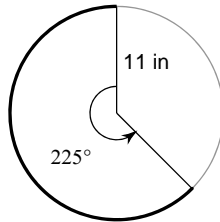


Find the length of each arc.

32) $\frac{9\pi}{4}$ mi



33) $\frac{55\pi}{4}$ in



Find the area of each sector.

34) $r = 2$ mi, $\theta = 90^\circ$ π mi²

35) $r = 5$ yd, $\theta = 315^\circ$ $\frac{175\pi}{8}$ yd²