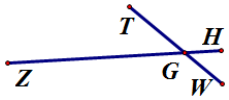
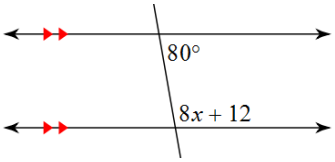
Name: **NTI Day 10** Teacher:

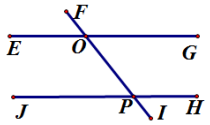
Describe a series of transformations that maps $\angle TGH$ onto $\angle ZGW$



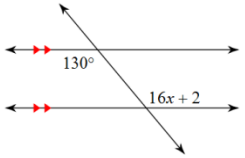
Find the value of x below:



Describe a series of transformations that maps $\angle POG$ onto $\angle OPJ$

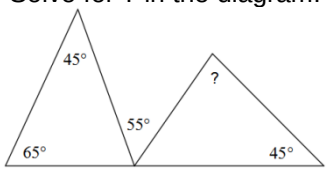


Find the value of x below:

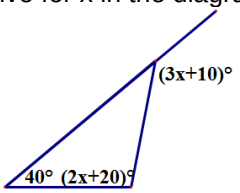


ΔABC and ΔXYZ are right triangles. $m\angle A = 42°$ and $m\angle Z = 48°$. How many congruent angles do these triangles have?

Solve for ? in the diagram:



Solve for x in the diagram

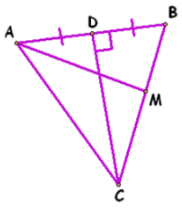


Always, Sometimes, Never

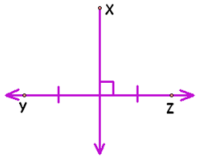
1. Two triangles that share a side form a rectangle
2. Isosceles triangles have whole number degree measures

True or False: A perpendicular bisector can also be a median. If so, sketch a picture with tic marks that show this.

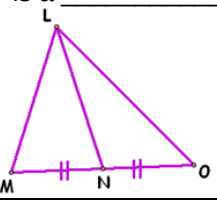
ΔABC is an isosceles with $\overline{AC} \cong \overline{BC}$. Identify the median and base.



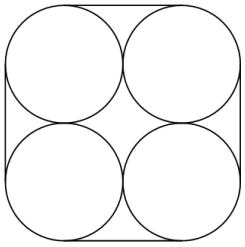
Point X is _____ from Y and Z.



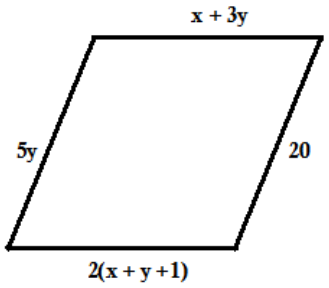
$\overline{LN}$ is a _____

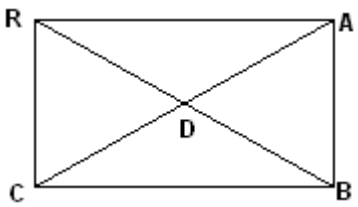


Four posts with 3-in. radii are bound together with a wire. Find the length of the shortest wire that will go around them.



What is the perimeter of the parallelogram below:





If AR = 3x + 6, BC = x + 18, and RC = 7, then

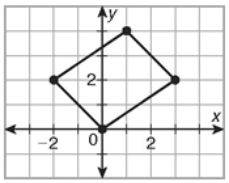
AR = _____

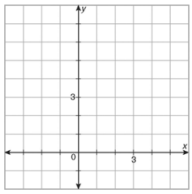
RB = _____

A sealed rectangular box measuring 8 x 6 x 18 in. contains 1 x 1 x 1 in. sugar cubes. How many sugar cubes are touching the box?

A person takes up 18 inches of space on a stadium bleacher. If there are 30 rows of bleachers and each bleacher is 80 feet long, how many people can sit an watch an event?

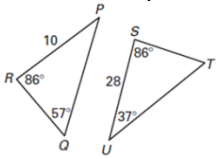
Dilate the figure to the right by a factor of ½.





Use the same figure from the far left. Dilate that picture by a factor of $^3/_2$ in the blank graph provided.

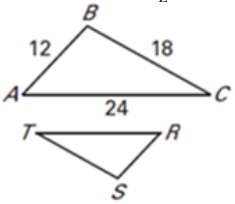
Are these two triangles similar? If so, explain how.



If the corresponding angles of two polygons are congruent and the corresponding side lengths are proportional, then the two polygons are:

A. Regular B. Concave
C. Similar D. Equilateral

Given $\Delta RST \sim \Delta ABC$, and the scale factor of ΔRST to ΔABC is $\frac{3}{2}$.

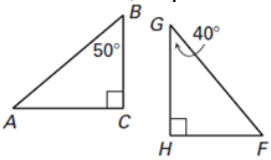


Find the length of

$\overline{RS}$_____ $\overline{ST}$_____

$\overline{TR}$_____

Are these two triangles similar? If so, explain how.

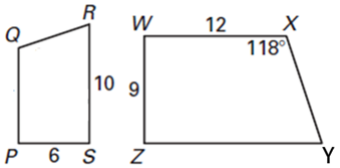


Always, Sometimes, Never

1. If two shapes are similar then they are congruent

2. If two shapes are congruent, then they are similar

In the diagram, $PQRS \sim WXYZ$



1. Find the scale factor of *PQRS* to *WXYZ*.
2. How long is $\overline{QP}$?
3. How long is $\overline{ZY}$?
4. How big is $\angle Q$?

My Work

Monday	Tuesday
Wednesday	Thursday

My Progress

MONDAY	TUESDAY	WEDNESDAY	THURSDAY
# of questions _____ # correct _____ I need more help with… _____ _____ _____ _____ _____ _____	# of questions _____ # correct _____ I need more help with… _____ _____ _____ _____ _____ _____	# of questions _____ # correct _____ I need more help with… _____ _____ _____ _____ _____ _____	# of questions _____ # correct _____ I need more help with… _____ _____ _____ _____ _____ _____