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| Transformations EasyDesign a poster showing the definitions of a translations, reflection, dilation, and rotation. Include the word, definition (in a complete sentence, in your own words), and a picture. | Triangles Easy  x – 22 3x+19   x - 17 Solve for ***x*** then find each interior angle. Show all work. | Transversals Easy Use colored pencils to follow the directions below:*-Draw 2 parallel lines in red. Label the lines b and a.**-Draw a transversal in orange through the parallel lines. Label the transversal d.**-Label the angles formed 1 through 8 in yellow.**-Label ONE pair of alternate interior angles with green dots(•).* *-Label ONE pair of consecutive interior angles with blue dots(•).* *-Label ONE pair of alternate exterior angles with purple dots(•).* *-Label ONE pair of corresponding angles with pink dots(•).* |
| Transformations MediumGraph triangle *ABC* with the coordinates *A*(3, 7), *B*(7, 3), and *C*(3, 3). Dilate triangle *ABC* on the coordinate plane using the origin as the center of dilation and a scale factor of 3 to form triangle *A*’*B*’ *C*.1. What are the coordinates of A’B’C’?
2. Are these triangles similar or congruent?
 | Triangles Medium In your own words explain the exterior angle theorem. Create a poster, comic strip, diagram or some kind of proof that demonstrates your explanation of the exterior angle theorem. | Transversals Medium. 1. Which lines are parallel lines? 2. If angle 6 measures 113⁰, what are the measures of angle 3, 4, 5, 11, 12, 13, 14? 3. If the measure of angle 2 is 3x, and the measure of 1 is 5x – 12, what is the measure of angle 9? --Show all your work for each problem and explain in words how you got  the answers.  |
| Tranformations HardGiven the pentagon:P (1, 4) E (4, 4) N (4, 1) T (2.5, 2)A (1, 1)First (x, y) 🡪  (x, ­y). Then use the image you just made and do (x, y) 🡪(y,-x) or Rotate 90⁰ clockwise. Last, use the image you just made and (x, y) 🡪 (x + 3, y - 2). Color the final image blue. | Triangles HardCreate ten triangle problems like the one in the Triangles Easy Box. Solve all the problems, showing your work. Circle your answer for each problem.  | Transversals HardYou are to design your own city. Your city must have a name and population written at the top of your project. Your city must have the following and be correct to receive full credit. -5 parallel streets (each street must be named)-2 transversal streets (each street must be named)-A gas station and a restaurant (alternate exterior angles)-Your house and a school (same side interior angles)-a dollar store and a movie theater (corresponding angles)-a library and a park (alternate interior angles)Each building must be labeled. All names must be school appropriate. |