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| Transformations Easy  Design 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 Medium  Graph 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 Hard  Given 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 Hard  Create 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 Hard  You 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. |