

CUT & PASTE Puzzle

ANGLE RELATIONSHIPS

Directions: Solve the problems along the bottom and right edge of the squares that appear to be intersecting. Then, cut the squares out so the edges match. Paste the squares on the template in the correct order.

A 3 67° Classify $\angle y$ and $\angle z$

B 8 19° Find $m\angle y$

C 7 49° Find $m\angle x$

D 118° Find $m\angle x$

E 141° Find $m\angle x$

F 46 58° Solve for x

ANGLE Relationships

Created by: ALL THINGS ALGEBRA®

Angle Relationships & Measures

CUT-OUT PUZZLE!

Objective: Students will practice identifying angle relationships and finding angle measures using this puzzle activity. This includes complementary angles, supplementary angles, and vertical angles. Several problems will require that students solve an equation. Problems range in difficulty. This activity was written for a high school level geometry class, but could be used with advanced middle school students.

Directions:

- 1) Copy enough puzzles and blank templates for each student. I typically put the problems on white paper and the template in color. This is optional and only makes it pop!
- 2) On a separate sheet of paper, students begin solving each problem. Each box is lettered so it makes it easy for students to organize their work. As they do this, I encourage them to record their answers in the boxes.
- 3) After solving, they cut out the squares and begin arranging them so the edges meet. If they need some help with this, remind them that the box letters must face up. For even more help, I sometimes tell them which box goes in the upper left corner to get them started.
- 4) Once they have the squares arranged, they paste them down on the template. I have my students staple their work to their puzzle and I collect as a classwork grade. Using the box letters makes it very easy to grade!

ANGLE RELATIONSHIPS Puzzle!

Directions: Solve the problems along the bottom and right edge of each square. Assume all lines that appear to be intersecting are intersecting. Then, cut the squares apart and arrange them so the edges match. Paste the squares on the template in the correct order.

<p>A 67°</p> <p style="font-size: x-small;">Classify $\angle y$ and $\angle z$</p>	<p>B 19°</p> <p style="font-size: x-small;">Find $m\angle x$</p>	<p>C 49°</p> <p style="font-size: x-small;">Find $m\angle x$</p>
<p>D 118°</p> <p style="font-size: x-small;">Find $m\angle y$</p>	<p>E 141°</p> <p style="font-size: x-small;">Supplementary</p> <p style="font-size: x-small;">Find $m\angle y$</p>	<p>F 58°</p> <p style="font-size: x-small;">Solve for x</p>
<p>G 43°</p> <p style="font-size: x-small;">Solve for x</p>	<p>H 28°</p> <p style="font-size: x-small;">Solve for x</p>	<p>I 156°</p> <p style="font-size: x-small;">Solve for x</p>
<p>J 105°</p> <p style="font-size: x-small;">Solve for x</p>	<p>K Vertical</p> <p style="font-size: x-small;">Solve for x</p>	<p>L 133°</p> <p style="font-size: x-small;">Solve for x</p>

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Date: _____ Per: _____

ANGLE RELATIONSHIPS Puzzle!

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