
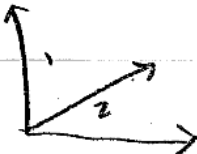

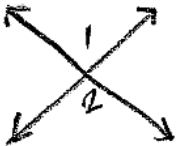

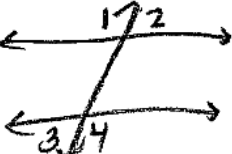




TYPES of Angle PAIRS

NAME	PICTURE	RELATIONSHIP	FORMED BY
Adjacent Angles		$\angle 1$ is next to $\angle 2$	2 angles with a common vertex and side.
Complementary Angles		$m\angle 1 + m\angle 2 = 90^\circ$	2 angles that equal 90° when combined
Supplementary Angles		$m\angle 1 + m\angle 2 = 180^\circ$	2 angles that equal 180° when combined, also forms straight line
Vertical Angles		$m\angle 1 = m\angle 2$	2 intersecting lines - <u>opposite angles</u>
Alternate Interior Angles		$m\angle 1 = m\angle 2$ $m\angle 3 = m\angle 4$	• 2 parallel lines cut by a transversal • <u>Inside</u> // lines • <u>opposite</u> transversal
Alternate Exterior Angles		$m\angle 1 = m\angle 4$ $m\angle 2 = m\angle 3$	• 2 parallel lines cut by a transversal • <u>outside</u> // lines • <u>opposite</u> Transversal
Corresponding Angles		$m\angle 1 = m\angle 2$	• 2 // lines cut by a transversal • Same side of transversal • Forms "F" shape
Interior Angles on the same side of		$m\angle 1 + m\angle 2 = 180^\circ$	• 2 // lines cut by a transversal • Same side of transversal

Bumper Sticker Project

Geometry I Unit Project: Bumper Sticker

For this project, you will be creating a bumper sticker based on what you have learned in this unit. Your bumper sticker must:

- ✓ At least one real life example (drawing) of where we see an angle we have learned in everyday life.

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- ✓ Include at least 4 of the 7 angles we learned about in this unit:

- Adjacent angles
- Complementary angles
- Supplementary angles
- Vertical angles
- Alternate interior angles
- Alternate exterior angles
- Corresponding angles

- ✓ Include at least one right triangle

- ✓ Colored in neatly

- ✓ A one page summary explaining your bumper sticker that states:

- Where each specific angle is in your bumper sticker.
- How you could find the missing angle of each type of angle you used if one angle was provided. Example: you drew a supplementary angle- if you knew one angle was 60, you could find the other by subtracting it from 180 since supplementary angles add up to 180.
- States how your real life example pertains to this unit of angles.
- Uses proper grammar and punctuation.

PROJECT IS WORTH 32 POINTS:
16 for the bumper sticker, 16 for the summary.

DUE _____

Bumper Sticker Project

RUBRIC FOR THE BUMPER STICKER

CATEGORY	4	3	2	1
Diagrams and Sketches	Diagrams and/or sketches are clear and greatly add to the reader's understanding of the procedure(s).	Diagrams and/or sketches are clear and easy to understand.	Diagrams and/or sketches are somewhat difficult to understand.	Diagrams and/or sketches are difficult to understand or are not used.
Neatness and Coloring	The work is presented and colored in a neat, clear, organized fashion that is easy to visualize	The work is presented and colored in a neat and organized fashion that is usually easy to visualize	The work is presented and somewhat colored in an organized fashion but may be hard to visualize at times.	The work appears sloppy, not colored, and unorganized. It is hard to know what information goes together.
Completion of Angles	There is at least four of the 7 angles in the project	There is 3 of the 7 angles in the project	There is 2 of the 7 angles in the project	There is 0 or 1 of the 7 angles in the project
Examples	Has an clear example of a real life picture of an angle we have learned and of a right triangle	Has an unclear example of a real life picture of an angle we have learned and of a right triangle	Has one of the two: a real life picture of an angle we have learned and of a right triangle	Has no real life picture of an angle we have learned or of a right triangle

RUBRIC FOR THE SUMMARY

CATEGORY	4	3	2	1
Neatness and Organization	The work is presented in a neat, clear, organized fashion that is easy to read.	The work is presented in a neat and organized fashion that is usually easy to read.	The work is presented in an organized fashion but may be hard to read at times.	The work appears sloppy and unorganized. It is hard to know what information goes together.
Mathematical Concepts	Explanation shows complete understanding of the mathematical concepts used to solve the problem(s). understands the difference in angles	Explanation shows substantial understanding of the mathematical concepts used to solve the problem(s). understands the difference in angles	Explanation shows some understanding of the mathematical concepts needed to solve the problem(s) and understand the difference in angles	Explanation shows very limited understanding of the underlying concepts needed to solve the problem(s) OR is not written.
Grammar, punctuation, spelling	Writer makes no errors in grammar, punctuation, or spelling.	Writer makes 1-2 errors in grammar, punctuation and/or spelling.	Writer makes 3-4 errors in grammar, punctuation, and/or spelling	Writer makes more than 4 errors in grammar, punctuation, and/or spelling.
Identifies Angles	Writer identifies each of the angles and where to find them in his or her drawing	Writer identifies most of the angles and where to find them in his or her drawing	Writer identifies half of the angles and where to find them in his or her drawing	Writer identifies a few to none of the angles and where to find them in his or her drawing

NAME _____
 COMMENTS:

GRADE _____ / 32

Bumper Sticker Project



NAME _____

GEOMETRY I PROJECT: BUMPER STICKER

