

Name:

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Date:

Geometry Exploration Lab

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Topic: 1.3 Angle Relationships and Angle Addition Postulate

1. Last time we discussed the segment addition postulate. Do you think there is a need for a segment subtraction postulate? What would it be?
2. Make a guess of what an Angle Addition Postulate would be.
3. Draw an example of congruent lines.
4. Draw an example of adjacent angles.
5. Draw an example of vertical angles.
6. Draw an example of complimentary angles.
7. Draw an example of supplementary angles.
8. Draw an acute, right, and obtuse angle.
9. For the acute angle, add something to it to make it a right angle.
10. For the right angle, split it in half, what are those angles?
11. For the obtuse angle, add something to make it a straight line (a.k.a. the straight angle)
12. Pick your favorite letters from yesterday's exploration, determine what kind of angles are present and use geometric markings to show it.
13. Draw two non-equal angles that add up to 90. Estimate their angle measures.
14. Draw three non-equal angles that add up to 90. Estimate their angle measures.
15. Draw two non-equal angles that add up to 180. Estimate their angle measures.
16. Draw three non-equal angles that add up to 180. Estimate their angle measures.