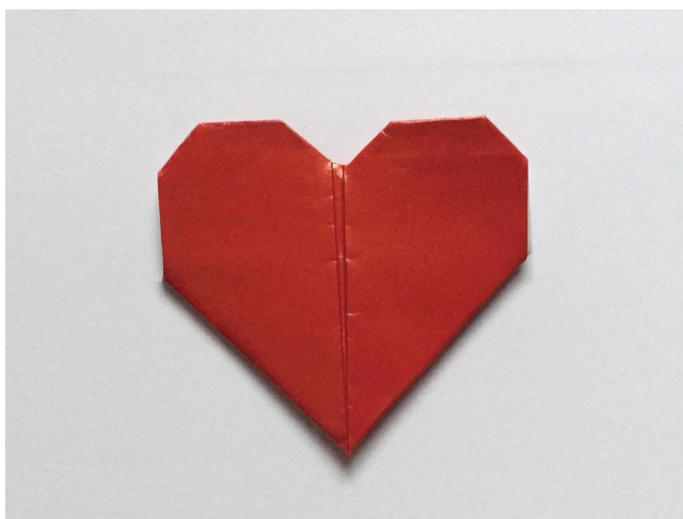


Lesson 15: Reasoning About Angles (Part 2)

- Let's figure out missing angle measurements.

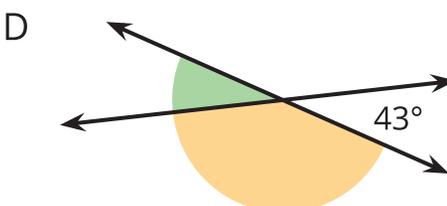
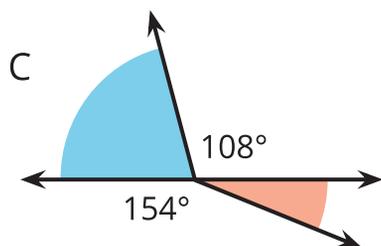
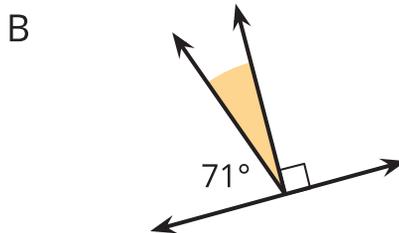
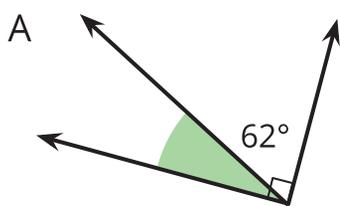
Warm-up: How Many Do You See: Obtuse Angles

How many angles do you see in the folded paper heart?



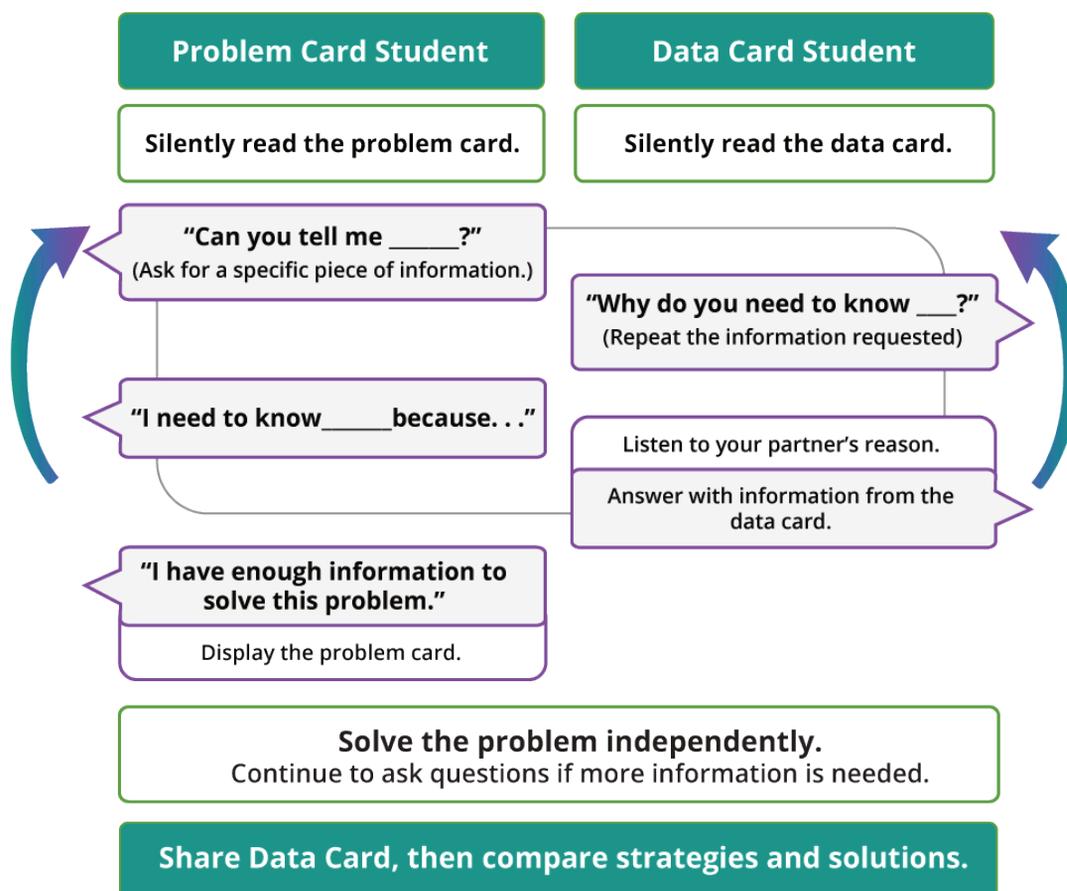
15.1: Shaded and Unshaded Angles

Find the measurement of each shaded angle. Show how you know.



15.2: Info Gap: A Whole Bunch of Angles

Your teacher will give you either a problem card or a data card. Do not show or read your card to your partner.



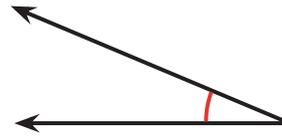
Pause here so your teacher can review your work. Ask your teacher for a new set of cards and repeat the activity, trading roles with your partner.

Section Summary

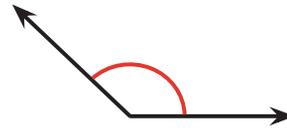
Section Summary

Earlier in the unit, we learned that a right angle measures exactly 90° . In this section, we learned other ways to name angles based on their measurements.

- **Acute angles** are less than 90° .



- **Obtuse angles** are greater than 90° but less than 180° .

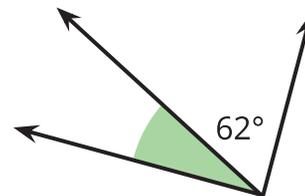


- **Straight angles** are exactly 180° .



We also solved problems about angles. For example, if two angles make a right angle or a straight angle, we can use the size of one angle to find the other.

The shaded angle here must be 28° because it makes a right angle when combined with the 62° angle.



Another example: Knowing that a full turn measures 360° , we reasoned that the long hand of a clock makes:

- a 360° angle every hour
- a 180° angle every one-half hour
- a 90° angle every 15 minutes
- a 60° angle every 10 minutes

