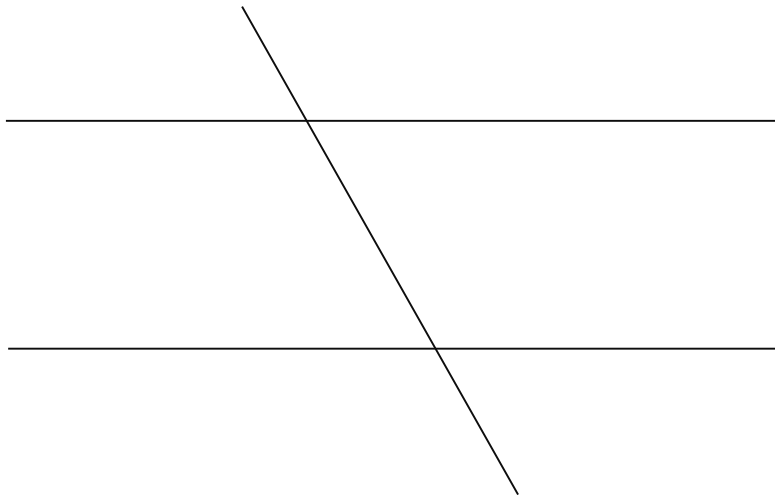


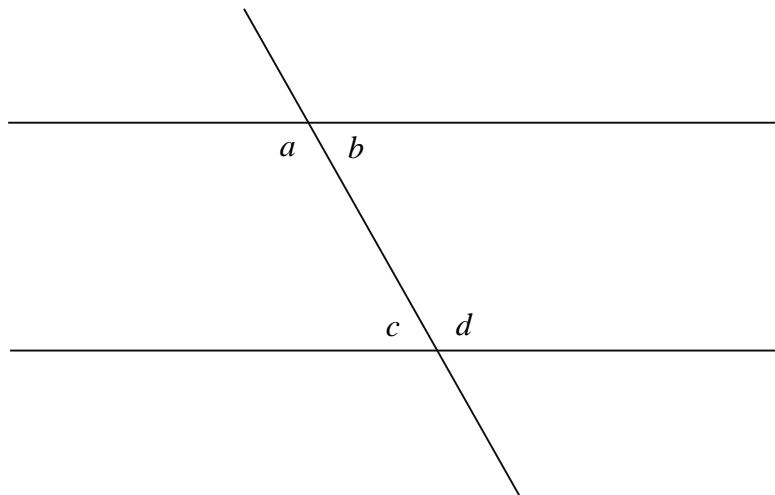
1. Place the ruler on the paper and draw two parallel lines of about 3 inches on either side of the ruler.



2. Remove the ruler and draw a transversal to intersect the parallel lines as shown below.



3. Now, label four angles exactly as shown below.



4. What can you say about the position of the angles relative to the parallel lines?

5. Measure $\angle a$ and $\angle d$ accurately using a protractor. What do you notice about the measures of the two angles?

6. Consider and note the position of $\angle a$ relative to $\angle d$.

7. Similarly, measure $\angle b$ and $\angle c$ accurately using a protractor. What do you notice about the measures of the two angles?

8. Similarly, consider and note the position of $\angle b$ relative to $\angle c$.

9. Identify one key similarity between the two pairs of angles you have measured.

In this activity, students will be able to verify that alternate interior angles are equal. Students will work on the activity in groups of four. Each group will be required to have a plain paper, a ruler graduated in inches, a pencil and a protractor.

Answer Keys

Day 22:

1. No response
2. No response
3. No response
4. They are located between the parallel lines
5. The angles are equal
6. This is to remind the students about the position of a pair of alternate angles
7. The angles are equal
8. This is to remind the students about the position of a pair of alternate angles
9. Angles in each pair have equal measures