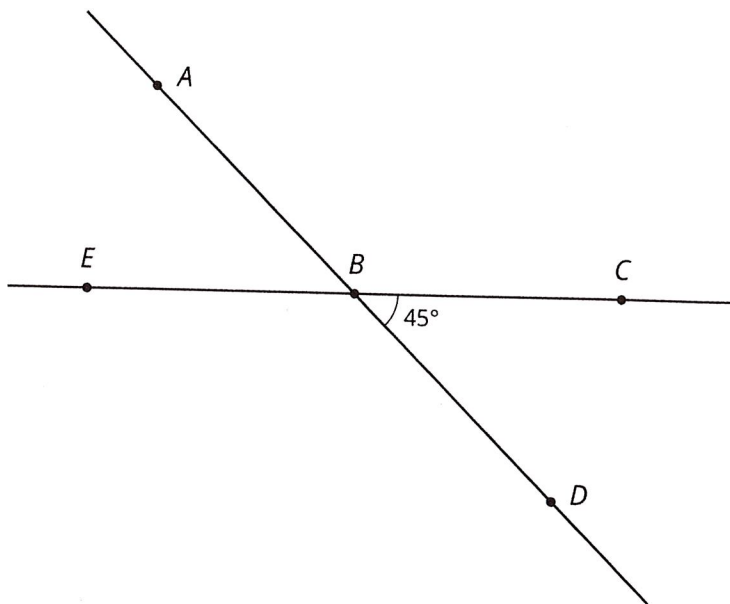


1. Use the diagram to find the measures of each angle. Explain your reasoning.

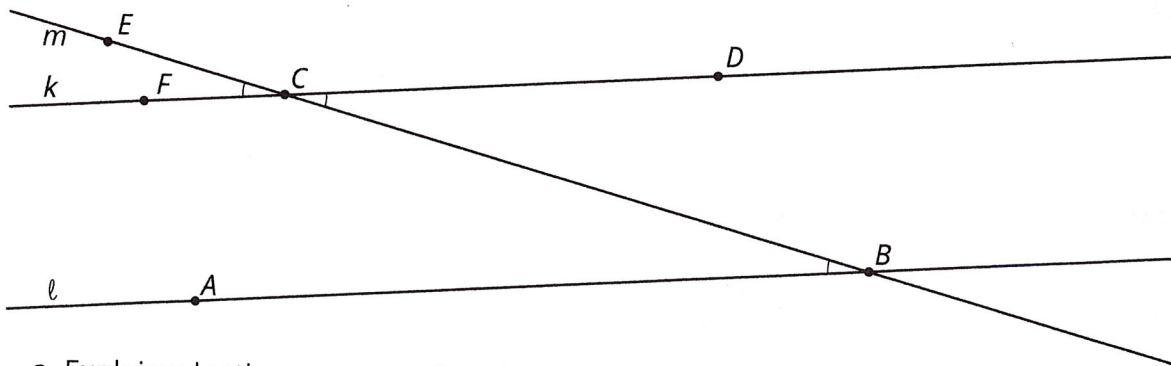
a. $m\angle ABC$

b. $m\angle EBD$

c. $m\angle ABE$



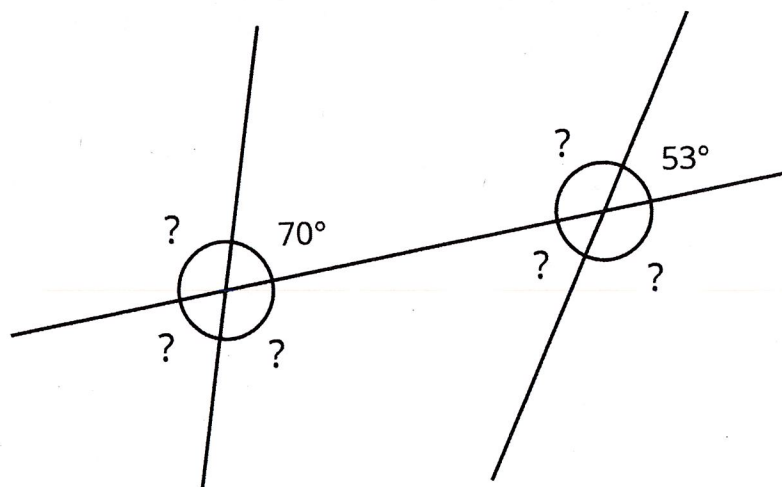
2. Lines k and l are parallel, and the measure of angle ABC is 19 degrees.



a. Explain why the measure of angle ECF is 19 degrees. If you get stuck, consider translating line l by moving B to C .

b. What is the measure of angle BCD ? Explain.

3. The diagram shows three lines with some marked angle measures.



Find the missing angle measures marked with question marks.

4. The two figures are scaled copies.

- What are some ways that you can tell they are scaled copies?
- What is the scale factor that takes Figure 1 to Figure 2?
- What is the scale factor that takes Figure 2 to Figure 1?

