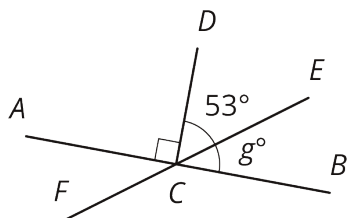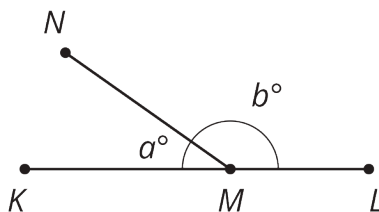# Lesson 12 Practice Problems

1. Segments AB, EF, and CD intersect at point C, and angle ACD is a right angle. Find the value of g.

2. M is a point on line segment KL. NM is a line segment. Select **all** the equations that represent the relationship between the measures of the angles in the figure.
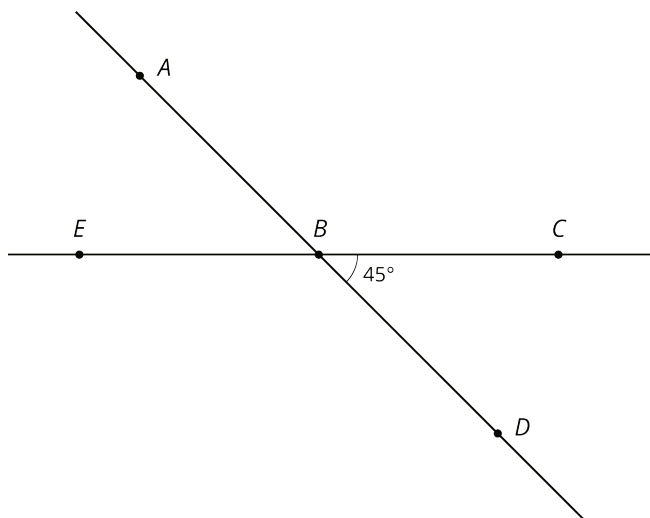

   A. $a = b$

   B. $a + b = 90$

   C. $b = 90 - a$

   D. $a + b = 180$

   E. $180 - a = b$

   F. $180 = b - a$

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3. Use the diagram to find the measure of each angle.
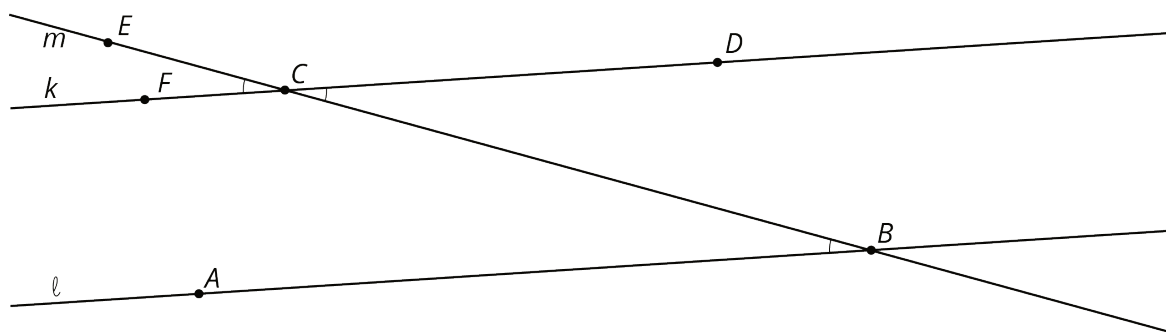
a. $m\angle ABC$

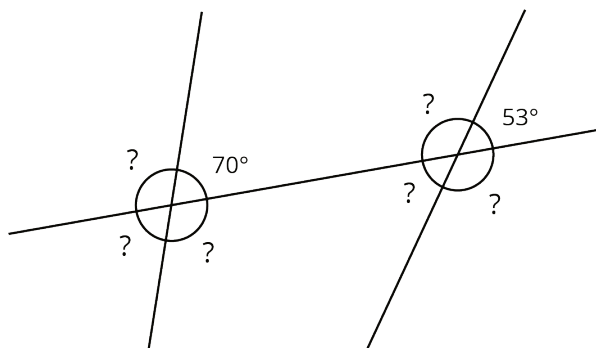b. $m\angle EBD$

c. $m\angle ABE$

(From Unit 1, Lesson 8.)

4. 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.

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

Find the missing angle measures marked with question marks.

6. Lines s and t are parallel. Find the value of x.

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