

Classroom Exercises

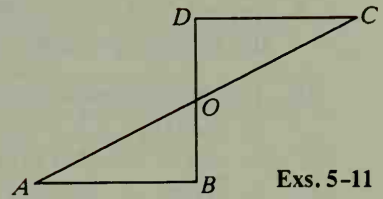
Suppose you know that $\triangle FIN \cong \triangle WEB$.

1. Name the three pairs of corresponding sides.
2. Name the three pairs of corresponding angles.
3. Is it correct to say $\triangle NIF \cong \triangle BEW$?
4. Is it correct to say $\triangle INF \cong \triangle EWB$?

The two triangles shown are congruent. Complete.

5. $\triangle ABO \cong \underline{\hspace{1cm}}?$
6. $\angle A \cong \underline{\hspace{1cm}}?$
7. $\overline{AO} \cong \underline{\hspace{1cm}}?$
8. $BO = \underline{\hspace{1cm}}?$

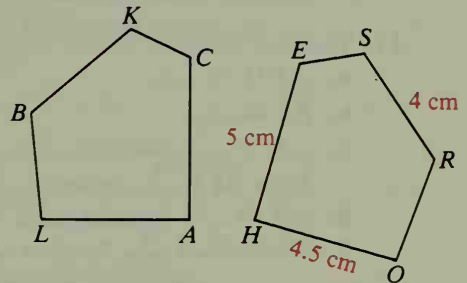
9. Can you deduce that O is the midpoint of any segment? Explain.
10. Explain how you can deduce that $\overline{DC} \parallel \overline{AB}$.
11. Suppose you know that $\overline{DB} \perp \overline{DC}$. Explain how you can deduce that $\overline{DB} \perp \overline{BA}$.



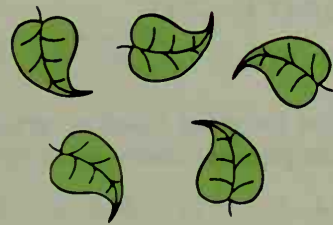
Exs. 5-11

The pentagons shown are congruent. Complete.

12. B corresponds to $\underline{\hspace{1cm}}?$
13. $\angle B \cong \underline{\hspace{1cm}}?$
14. $\underline{\hspace{1cm}}? = m\angle E$
15. $KB = \underline{\hspace{1cm}}?$ cm
16. If $\overline{CA} \perp \overline{LA}$, name two right angles in the figures.



17. The five leaves shown are all congruent, but one differs from the others. Which one is different and how?



18. a. Name the coordinates of points A , B , and C .
b. Name the coordinates of a point D such that $\triangle ABC \cong \triangle ABD$.
19. Name the coordinates of a point G such that $\triangle ABC \cong \triangle EFG$. Is there another location for G such that $\triangle ABC \cong \triangle EFG$?
20. Name the coordinates of two possible points H such that $\triangle ABC \cong \triangle FEH$.

