

LESSON

Practice A

Properties of Special Parallelograms

Match each figure with the letter of one of the vocabulary terms. Use each term once.

1.

- 2.
- 3.
- A. rectangle B. rhombus C. square
- 0, -4--



C

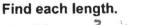


Fill in the blanks to complete each theorem.

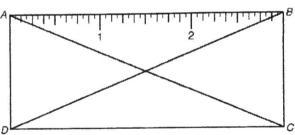
- 4. If a parallelogram is a rhombus, then its diagonals are perfect is
- 5. If a parallelogram is a rectangle, then its diagonals are
- 6. If a quadrilateral is a rectangle, then it is a parallelogram is a rhombus, then each diagonal bisects
- a pair of opposite angles.

 8. If a quadrilateral is a rhombus, then it is a formula leave the second and the second angles.

The part of a ruler shown is a rectangle with AB = 3 inches and $BD = 3\frac{1}{4}$ inches.



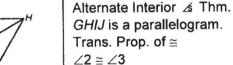
9.
$$DC = 3 \frac{1}{4}$$
10. $AC = 3 \frac{1}{4}$



Use the phrases and theorems from the Word Bank to complete this two-column proof.

11. Given: GHIJ is a rhombus.

Prove: $\angle 1 \cong \angle 3$



Statements	Reasons
1. GHIJ is a rhombus.	1. Given
2. a. GHIJ is a parallelogram	2. rhomb. → □
3. GH JI	3. □ → opp. sides
4. ∠1 ≅ ∠2	4. b. Alt interior L's Theorem
5. c	5. rhomb. → each diag. bisects opp. △
6. ∠1 ≅ ∠3	6. d. Trans propof =