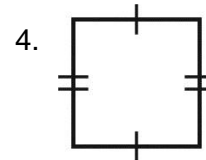
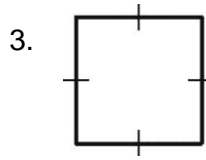
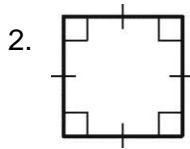
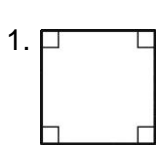


Properties of Rectangles, Rhombuses, and Squares

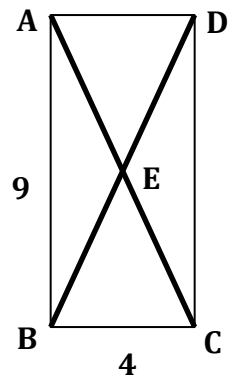
Tell whether each figure is a parallelogram, rectangle, rhombus, or square BASED ONLY ON THE INFO GIVEN. Use the most specific name possible.



A modern artist's sculpture has rectangular faces. The face shown here is 9 feet long and 4 feet wide. Find each measure. (*Hint: Use the Pythagorean Theorem.*)

5. $DC =$ _____ 6. $AD =$ _____

7. $DB =$ _____ 8. $AE =$ _____



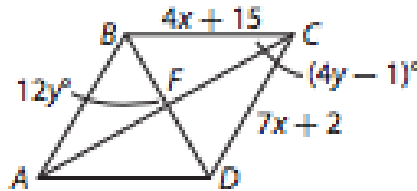
$VWXY$ is a rhombus. Find each measure.

9. $AB =$ _____

10. $m\angle ABF =$ _____

11. $m\angle BCA =$ _____

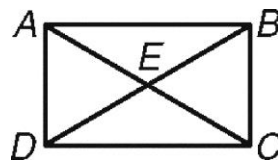
12. $m\angle ABC =$ _____



Write a paragraph proof.

13. Given: $ABCD$ is a rectangle.

Prove: $AC \cong BD$



14. Select the word that best describes when each of the following statements are true.

Select the correct answer for each lettered part.

- | | | | |
|------------------------------------|------------------------------|---------------------------------|-----------------------------|
| A. A rectangle is a parallelogram. | <input type="radio"/> always | <input type="radio"/> sometimes | <input type="radio"/> never |
| B. A parallelogram is a rhombus. | <input type="radio"/> always | <input type="radio"/> sometimes | <input type="radio"/> never |
| C. A square is a rhombus. | <input type="radio"/> always | <input type="radio"/> sometimes | <input type="radio"/> never |
| D. A rhombus is a square. | <input type="radio"/> always | <input type="radio"/> sometimes | <input type="radio"/> never |
| E. A rhombus is a rectangle. | <input type="radio"/> always | <input type="radio"/> sometimes | <input type="radio"/> never |