

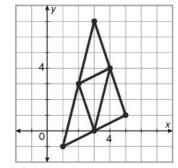
- 11. Each "step" in the ziggurat has equal height. Give the vocabulary term for MN.
- 12. The bottom of the ziggurat is 27.3 meters long, and the top of the ziggurat is 11.6 meters long. Find MN.

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- 10. rhombus
- 11. rectangle; rhombus

Practice and Problem Solving: C

- Parallelogram and rhombus; Possible explanation: In a square or a rectangle, the interior angles must measure 90°. Therefore, the longest side of the triangle formed by any two sides and a diagonal must be the diagonal.
- 2. rhombus
- 3. $x\sqrt{3}$
- 4. 60° and 120°
- 5.3
- 6. 1
- 7. 1
- 8. 1
- 9. an infinite number
- 10. 3
- 11.4
- 12. 3
- 13. (1, -1), (5, 1), (3, 7)
- 14. midsegment triangle



Practice and Problem Solving: Modified

- 1. valid, perpendicular, opposite sides are congruent
- 2. valid, congruent, parallel, parallelogram
- 3. not valid, BC, parallel
- 4. not valid, \overline{BD} , perpendicular
- 5. parallelogram
- 6. rectangle
- 7. rhombus
- 8. rectangle, rhombus

Reading Strategies

- 1. rectangle
- 2. rhombus
- 3. square
- 4. rectangle
- 5. square
- 6. rhombus
- 7. rhombus

Success for English Learners

- 1. You also need to know that one angle of *WXYZ* is a right angle, and any two adjacent sides are congruent.
- 2. No; you also need to know that $\angle WZQ \cong \angle YZQ$ because you need to know that \overline{XZ} bisects a pair of opposite angles.

LESSON 9-5

Practice and Problem Solving: A/B

- 1. 55°
- 2. 22°
- 3. 123°
- 4.60
- 5. 98°
- 6. 4.9
- 7. *n* = 11.5
- 8. *x* = 12 or -12
- 9. *a* = 1.4
- 10. $z = \sqrt{19}$ or $-\sqrt{19}$
- 11. trapezoid midsegment
- 12. 19.45 m

Practice and Problem Solving: C

- 1. Area = $\frac{1}{2}$ (AC)(BD)
- 2. Yes; Possible answer: The length of *AE* is half the length of *AC*, and *BE* may be found from *BA* and *AE* by using the Pythagorean Theorem. *BD* is the sum of

BE and *ED*. The area is $\frac{1}{2}$ (*AC*)(*BD*).

3. No; Possible answer: There is no way to use the Pythagorean Theorem to find the length of *AE*, and thus *AC*, with the information provided.

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