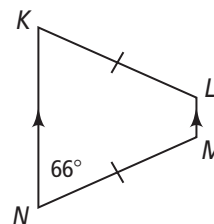# 6-6

Standardized Test Prep

Trapezoids and Kites

Multiple Choice

For Exercises 1–5, choose the correct letter.

1. In the isosceles trapezoid at the right, what is the measure of $\angle L$?
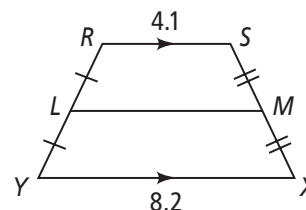
   Ⓐ 24   Ⓒ 114

   Ⓑ 66   Ⓓ 132

2. What is true about the diagonals in an isosceles trapezoid?

   Ⓕ They are congruent.

   Ⓖ They are perpendicular.

   Ⓗ They are congruent and perpendicular.

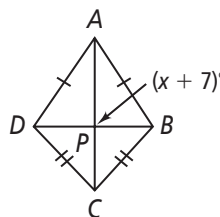   Ⓘ The length of each diagonal is equal to half the sum of the bases.

3. $\overline{LM}$ is the midsegment of trapezoid *RSXY*. What is *LM*?

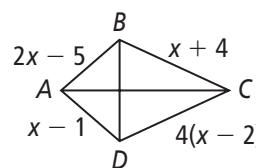   Ⓐ 4.1   Ⓒ 6.15

   Ⓑ 6   Ⓓ 12.3

4. For which value of *x* is *ABCD* a kite?

   Ⓕ 23   Ⓗ 73

   Ⓖ 33   Ⓘ 83

5. **Algebra** What is the value of *x* in kite *ABCD* at the right?

   Ⓐ 2   Ⓒ 8

   Ⓑ 4   Ⓓ 16

Short Response

6. A quadrilateral has diagonals that are congruent and bisect opposite pairs of angles. Could this quadrilateral be a kite? Explain.