Trapezoids and Kites

Vocabulary

Review

6-6

Underline the correct word to complete each sentence.

- **1.** An *isosceles* triangle always has two / three congruent sides.
- **2.** An equilateral triangle is also a(n) *isosceles* / right triangle.
- **3.** Cross out the length(s) that can NOT be side lengths of an *isosceles* triangle.

trapezoid

base

base angles

base

eg

Vocabulary Builder

trapezoid (noun) TRAP ih zoyd

Related Words: base, leg

Definition: A **trapezoid** is a quadrilateral with exactly one pair of parallel sides.

Main Idea: The parallel sides of a **trapezoid** are called *bases*. The nonparallel sides are called *legs*. The two angles that share a base of a **trapezoid** are called *base angles*.

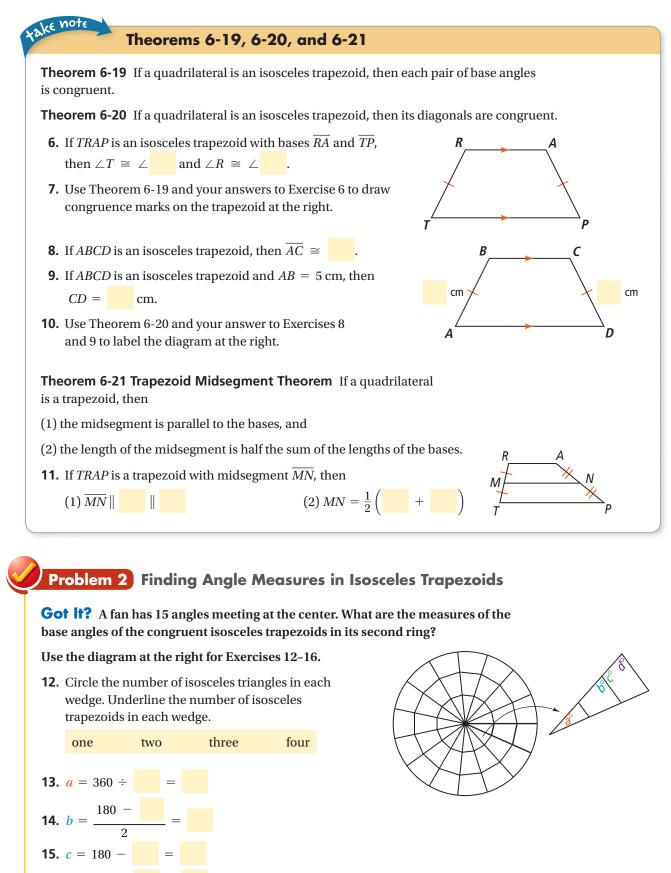
• Use Your Vocabulary

4. Cross out the figure that is NOT a *trapezoid*.



5. Circle the figure(s) than can be divided into two *trapezoids*. Then divide each figure that you circled into two *trapezoids*.

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17. The measures of the base angles of the isosceles trapezoids are

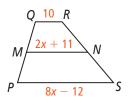
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and

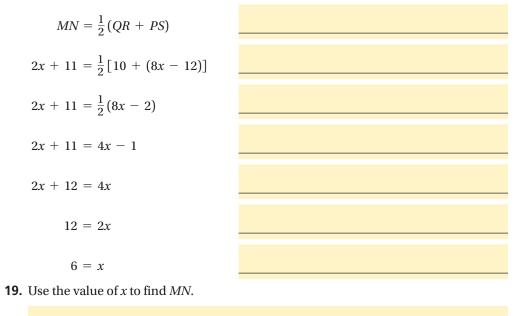
16. d = 180 -

Problem 3 Using the Midsegment Theorem

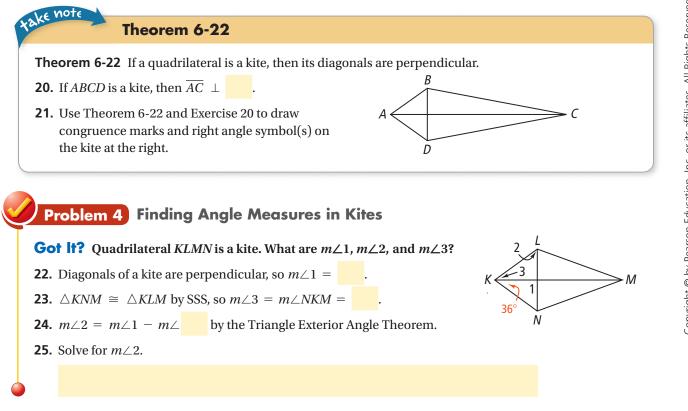
Got It? Algebra \overline{MN} is the midsegment of trapezoid PQRS. What is x? What is *MN*?



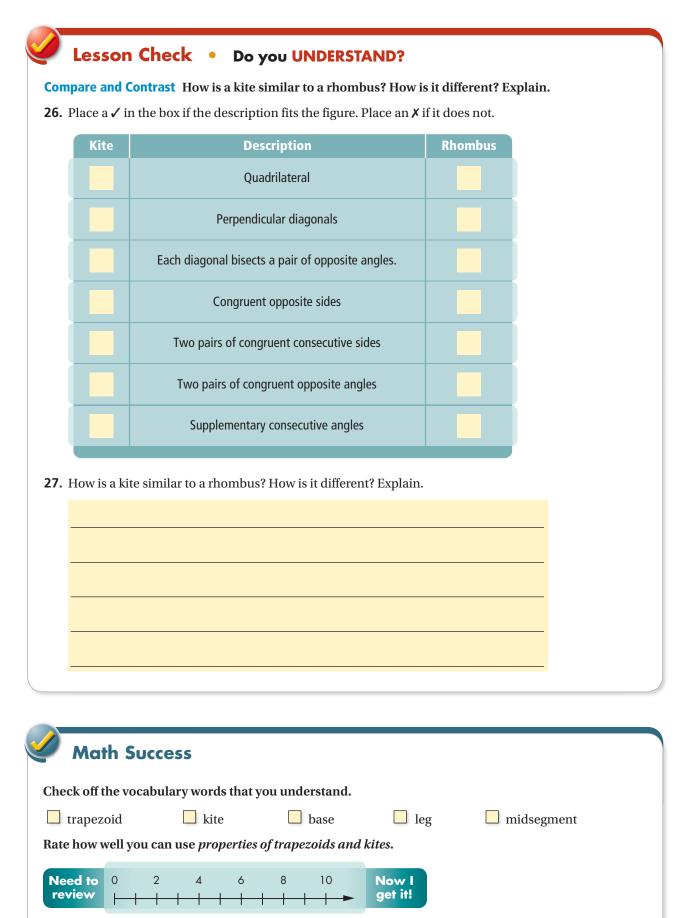
18. The value of *x* is found below. Write a reason for each step.



A kite is a quadrilateral with two pairs of consecutive sides congruent and no opposite sides congruent.



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