6-2 Additional Practice

Kites and Trapezoids
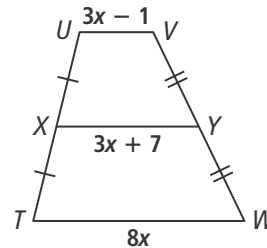
Find the missing lengths and angle measures in kite *ABCD*.

1. *AC*

2. *CD*

3. *m∠ABE*

4. *m∠BCE*
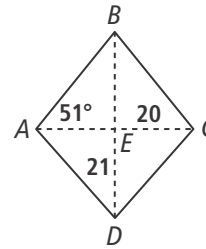
What is the length of each segment in trapezoid *TUVW*?

5. *UV*

6. *XY*

7. *TW*

8. Understand Given kite *ABCD* and isosceles trapezoid *WXYZ*, complete a two-column proof to show that △*ADW* ≅ △*CDZ*.

Statement	Reason
1.	**1.** Given
2. $\overline{AD} \cong \overline{CD}$	**2.**
3.	**3.** Diagonals of a kite are ⊥.
4. $\overline{ED} \cong \overline{ED}$	**4.**
5.	**5.** HL Thm.
6. ∠*DAE* ≅ ∠*DCE*	**6.**
7.	**7.** Alt. Int. ∠s Thm.
8.	**8.** Transitive Prop. of ≅
9. △*ADW* ≅ △*CDZ*	**9.**
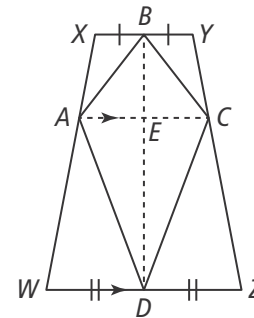
9. Apply In Bhutanese architecture, the faces of buildings are trapezoids. If the row of decorative brick shown is 28.5 feet wide, what is the width of the base of the building?