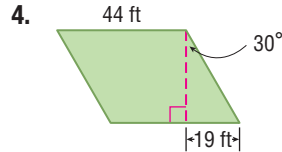
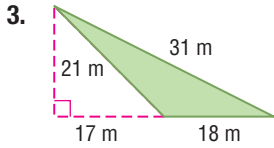
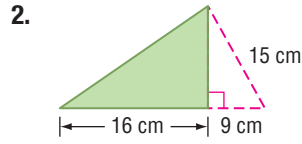
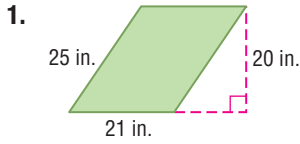


Mid-Chapter Quiz

Lessons 11-1 through 11-3

Find the perimeter and area of each parallelogram or triangle. Round to the nearest tenth if necessary. (Lesson 11-1)



5. The height of a triangle is 8 inches more than its base. The area of the triangle is 104.5 square inches. Find the base and height. (Lesson 11-1)

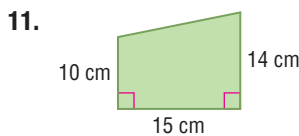
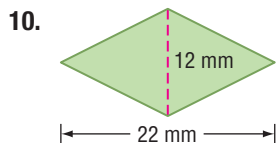
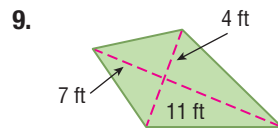
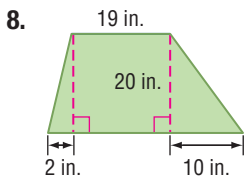
6. **DESIGN** A plaque is made with a rhombus in the middle. If the diagonals of the rhombus measure 7 inches and 9 inches, how much space is available for engraving text onto the award? (Lesson 11-2)



7. **MULTIPLE CHOICE** The area of a kite is 4 square feet. If the tail is to be 3 times longer than the kite's long diagonal, and the short diagonal measures 2 feet, how long should the kite's tail be? (Lesson 11-2)

- A 4 feet C 7 feet
B 6 feet D 12 feet

Find the area of each trapezoid, rhombus, or kite. (Lesson 11-2)

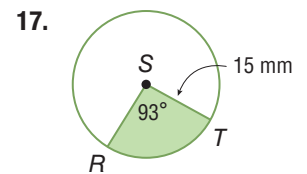
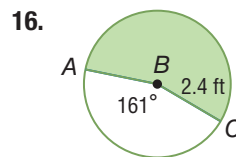
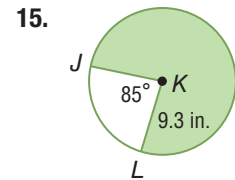
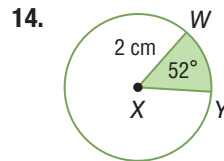


12. **ARCHAEOLOGY** The most predominant shape in Incan architecture is the trapezoid. The doorway pictured below is 3 feet wide at the top and 4 feet wide at the bottom. A person who is 5 feet 8 inches tall can barely pass through the doorway. How much fabric would be necessary to make a curtain for the doorway? (Lesson 11-2)



13. **ALGEBRA** A sector of a circle has a central angle measure of 30° and radius r . Write an expression for the perimeter of the sector in terms of r . (Lesson 11-3)

Find the area of each shaded sector. Round to the nearest tenth. (Lesson 11-3)



Find the indicated measure. Round to the nearest tenth. (Lesson 11-3)

18. The area of a circle is 52 square inches. Find the diameter.
19. Find the radius of a circle with an area of 104 square meters.

20. **FRUIT** The diameter of the orange slice shown is 9 centimeters. If each of the orange's 10 sections are congruent, find the approximate area covered by 8 sections. (Lesson 11-3)

