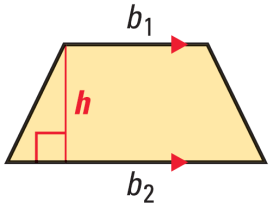
Geometry

11.2 Areas of Trapezoids, Rhombuses, and Kites

## Area of a Trapezoid

bases

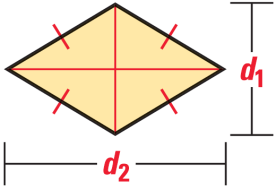
b2

b1

height

h

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Where \_\_\_ is the \_\_\_\_\_\_\_\_\_ and \_\_\_ and \_\_\_ are the \_\_\_\_\_\_\_.



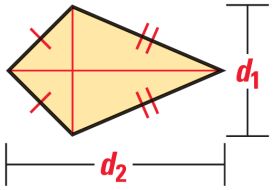
## Area of a Rhombus

diagonals

d2

d1

\_\_\_\_\_\_\_\_\_\_\_\_ Where \_\_\_ and \_\_\_are the \_\_\_\_\_\_\_\_\_\_.



## Area of a Kite

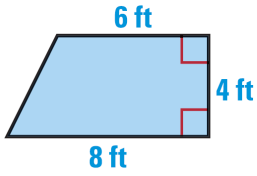
diagonals

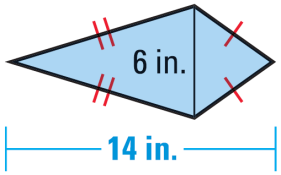
d2

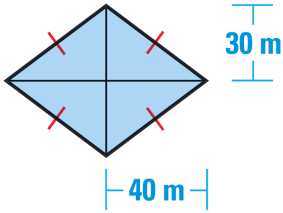
d1

\_\_\_\_\_\_\_\_\_\_\_\_ Where \_\_\_ and \_\_\_are the \_\_\_\_\_\_\_\_\_\_.

Find the area







The area of a kite is 80 ft2. One diagonal is 4 times as long as the other. Find the diagonal lengths.

Find the area of a rhombus with vertices M(1, 3), N(5, 5), P(9, 3) and Q(5, 1).



Diagonals are

Assignment: 733 #4-38 even, 44-48 even = 21