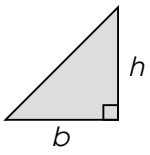
Name: _____

Basic

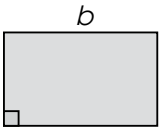
Area of Rhombuses and Kites

Formula for triangle:



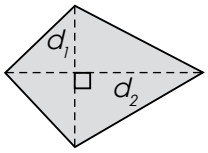
$A = \frac{1}{2} \times b \times h$

Formula for rectangle:



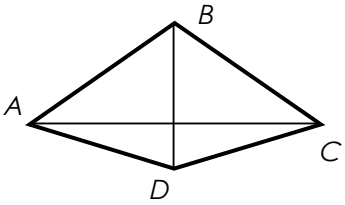
$A = b \times h$

Formula for rhombus or kite:



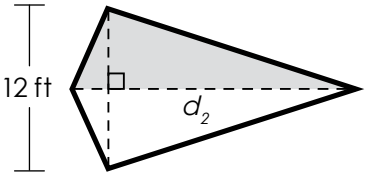
$A = \frac{1}{2} \times d_1 \times d_2$

a. Find the length of *BD*.

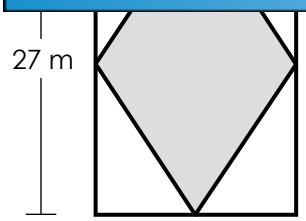


AC is 6 in and the area of

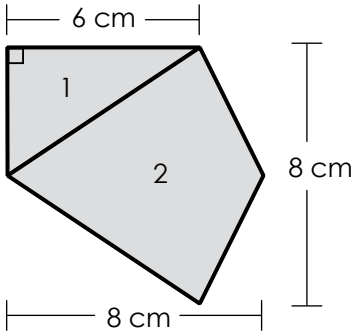
b. Find the length of d_1.



The shaded triangle is 63 ft².



area = _____ area = _____ area = _____



f. Calculate the area of the shape.

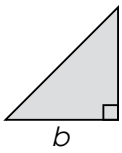
area = _____

ANSWER KEY

Basic

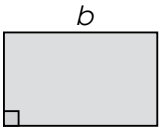
Area of Rhombuses and Kites

Formula for triangle:



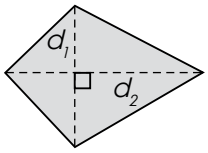
$A = \frac{1}{2} \times b \times h$

Formula for rectangle:



$A = b \times h$

Formula for rhombus or kite:



$A = \frac{1}{2} \times d_1 \times d_2$

a. Find the length of *BD*.

b. Find the length of d_1.

Method 1

area of the kite =
63 × 2 = 126
126 = $\frac{1}{2}$ × 18 × d_1

area = **44 cm²**