

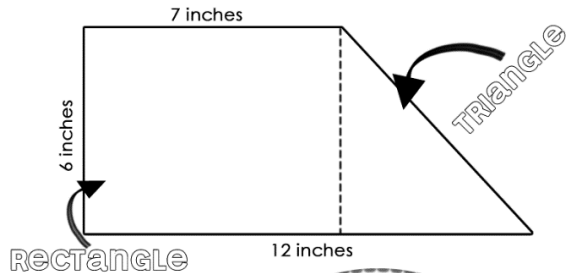
TRAPEZOID AREA

a TRAPEZOID can be decomposed into a RECTANGLE and TRIANGLE!

FORMULAS WE KNOW:

rectangle
 $A = lw$
 or
 $A = bh$

triangle
 $A = \frac{1}{2}bh$



ONE SET OF PARALLEL SIDES

- rectangle = 6 in by 7 in
- $A = 6 \times 7$
- $A = 42$ inches squared

The bottom base is 12 in while the top is 7 in. That means the bottom can be divided into 7 in and 5 in at the dotted line.

- triangle = 5 in base x 6 in height
- $A = \frac{1}{2} \times 5 \times 6$
- $A = 15$ inches squared

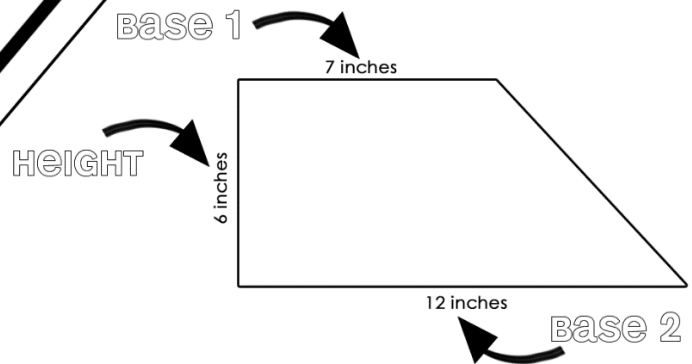
OR use the TRAPEZOID FORMULA

FINAL AREA

$15 + 42 = 57$
 57 in^2

TRAPEZOIDS

$A = \frac{1}{2}(b_1 + b_2)h$



$A = \frac{1}{2}(12 + 7)6$

$A = \frac{1}{2}(19)6$

FINAL AREA

57 in^2