Trapezoids:

- A. Definitions
 - A <u>trapezoid</u> is a 4-sided figure that has 2 parallel sides of different lengths. (If it had 2 parallel sides of the same length, the figure would be a parallelogram.)
- B. Basic Memorizations

Area =
$$\frac{h \cdot (b_1 + b_2)}{2}$$
 where 'h' is the height and b_1, b_2 are the 2 bases

- C. Examples
 - Ex [1] Find the area of a trapezoid with bases 4" and 5" that has a height of 6". ______in².
 - a. The answer is $6 \cdot (4+5)/2 = 3 \times 9 = 27$.
 - Ex [2] Find the area of a trapezoid with bases 5ft and 7ft that has a height of 5ft. _____ft².

a. The answer is
$$\frac{5 \cdot (5+7)}{2} = 5 \times 6 = 30$$
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