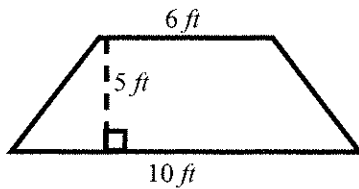


Lesson 2 ~ Area of a Trapezoid

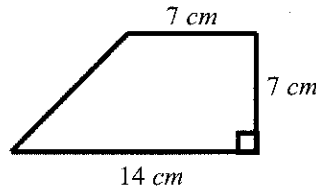
Name _____ Period _____ Date _____

Calculate the area of each trapezoid.

1.



2.



3. $b_1 = 7.8 \text{ m}$
 $b_2 = 4.2 \text{ m}$
 $h = 9.4 \text{ m}$

4. One of the bases of a trapezoid is 7 inches, the other base is 4 inches and the height is 3 inches. What is the area of the trapezoid?

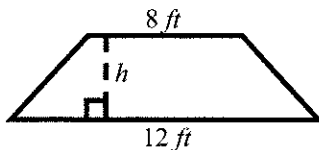
5. Jorge's new yard is in the shape of a trapezoid. One of the parallel sides is 25 feet long. The other parallel side is 18 feet long. There is 16 feet between the two parallel sides.

a. Sketch and label a diagram of Jorge's new yard.

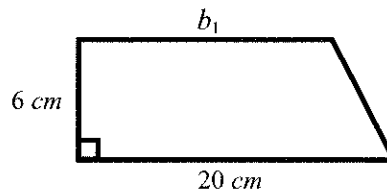
b. How many square feet of sod will Jorge need for his new yard?

Find the unknown base or height of each trapezoid.

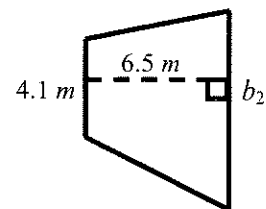
6. Area = 50 ft^2



7. $A = 99 \text{ cm}^2$



8. $A = 40.95 \text{ m}^2$



9. A trapezoid is 64 cm^2 . The height is 12 cm and one base is 4 cm. What is the length of the missing base?

10. A flower box has two sides that are the shape of a trapezoid. The area of one side is 200 square inches. One of the bases is 12 inches and the other base is 8 inches. Find the height of the flower box.