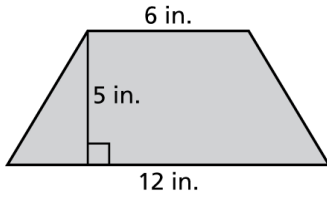


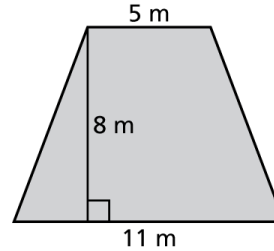
Geometry – Area of Trapezoids

Find the area of each polygon. Show all necessary work.

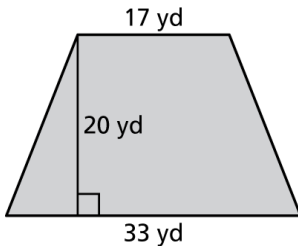
1)



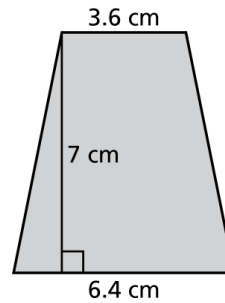
2)



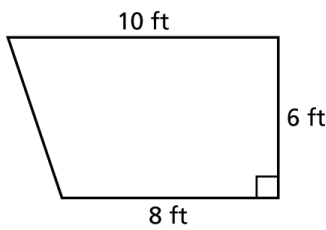
3)



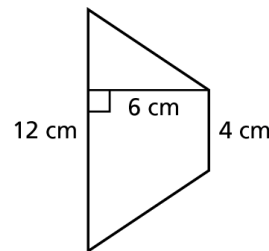
4)



5)



6)



7) Describe and correct the error in finding the area of the trapezoid.

A trapezoid with a top base of 2 m, a bottom base of 6 m, and a height of 3 m. A right-angle symbol is shown at the base of the height line.

$$A = \frac{1}{2}(3)(2)(6) = 18 \text{ m}^2$$

Complete the following.

- 8) A sign is in the shape of a trapezoid with a bases of 12 inches and 9 inches and a height of 8 inches. Find the area of the sign.

- 9) You want to put a trapezoidal table in a rectangular dining room. The table has bases of 8 feet and 6 feet and has a height of 7 feet. How many square feet of area will you have left over in that 11 by 8 feet rectangular room?

- 10) The triangle and the trapezoid have the same area. What is the length l of the triangle?

