

Name _____

Area of Trapezoids



COMMON CORE STANDARD—6.G.1
Solve real-world and mathematical problems involving area, surface area, and volume.

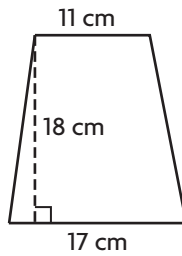
Find the area of the trapezoid.

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

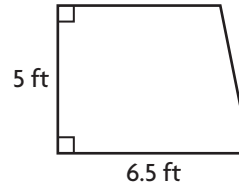
$A = \frac{1}{2} \times (\underline{11} + \underline{17}) \times 18$

$A = \frac{1}{2} \times \underline{28} \times 18$

$A = \underline{252} \text{ cm}^2$

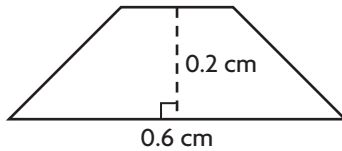


2. 5.5 ft



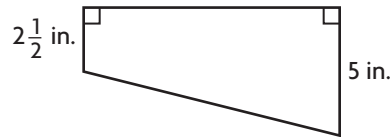
$A = \underline{\hspace{2cm}}$

3. 0.2 cm



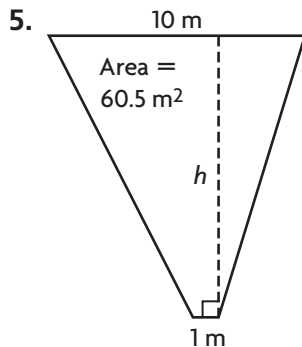
$A = \underline{\hspace{2cm}}$

4. 10 in.

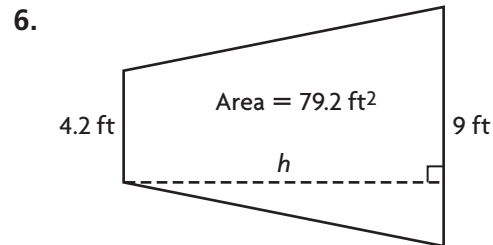


$A = \underline{\hspace{2cm}}$

Find the height of the trapezoid.



$h = \underline{\hspace{2cm}}$



$h = \underline{\hspace{2cm}}$

Problem Solving



7. Sonia makes a wooden frame around a square picture. The frame is made of 4 congruent trapezoids. The shorter base is 9 in., the longer base is 12 in., and the height is 1.5 in. What is the area of the picture frame?

8. Bryan cuts a piece of cardboard in the shape of a trapezoid. The area of the cutout is 43.5 square centimeters. If the bases are 6 centimeters and 8.5 centimeters long, what is the height of the trapezoid?
