

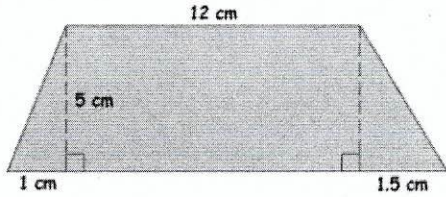
4.3

Area of Trapezoids Assignment (Honors)

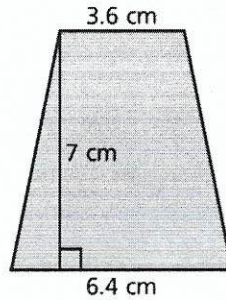
Name _____ Period _____

Find the area of the trapezoid.

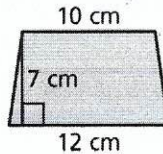
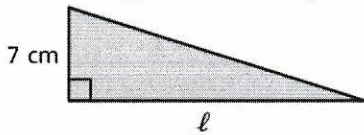
1.



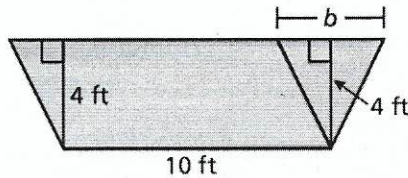
2.



3. The triangle and the trapezoid have the same area. What is the length of the triangle?



4. The trapezoid consists of a triangle and a parallelogram. The area of the trapezoid is 48 square feet. Find the length of the base of the triangle.

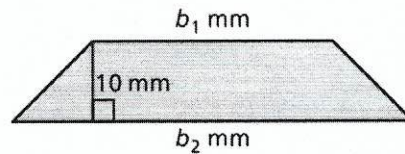


5. The area of the trapezoid is 40 square millimeters.

a. Find two possible values for each base length.

b. Is it possible for b_2 to equal 9 millimeters?

Explain.

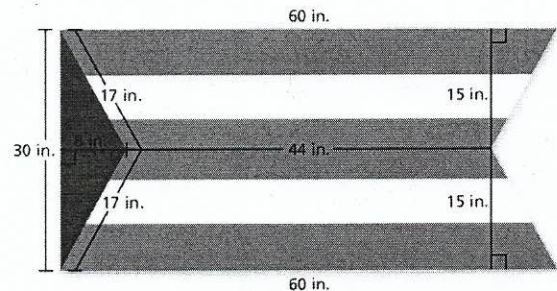


The shape of the flag is referred to as a swallowtail shape. Its unique shape gives the flag some distinct characteristics.

6. Which polygons compose the shape of the flag?

7. What is the combined area of both trapezoids?

8. Is the triangular portion of the flag an equilateral, isosceles, or scalene triangle? Explain your reasoning.



9. The flag is hanging on a wall. How much of the wall is covered by the flag?