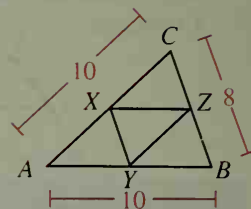


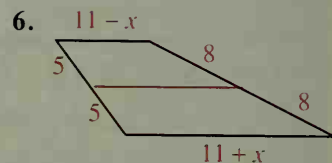
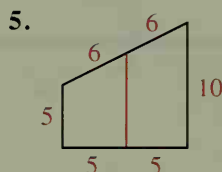
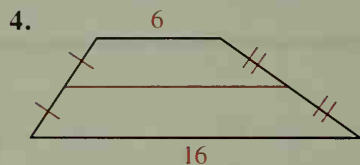
## Classroom Exercises

$X$ ,  $Y$ , and  $Z$  are midpoints of the sides of isosceles  $\triangle ABC$ .

1. Explain why  $XZBA$  is a trapezoid.
2. Name two trapezoids other than  $XZBA$ .
3. Name an isosceles trapezoid and find its perimeter.



Find the length of the median of each trapezoid.



Draw the trapezoid described. If such a trapezoid cannot be drawn, explain why not.

7. with two right angles
8. with both bases shorter than the legs
9. with congruent bases
10. with three acute angles
11. Draw a quadrilateral such that exactly three sides are congruent and two pairs of angles are congruent.

## Written Exercises

Each diagram shows a trapezoid and its median. Find the value of  $x$ .

