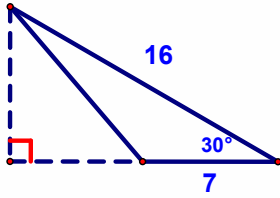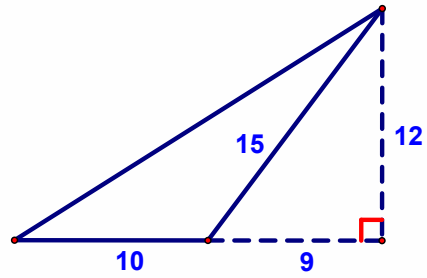8.

Find the area of each obtuse triangle.
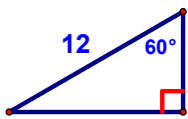
a.

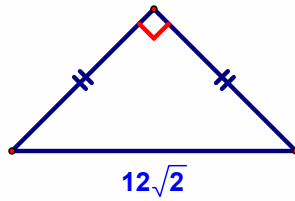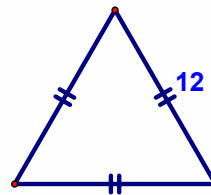b.

.

9.

Find the area of each triangle.

a.

b.

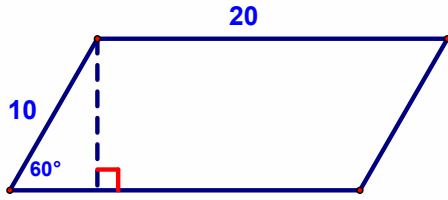c.

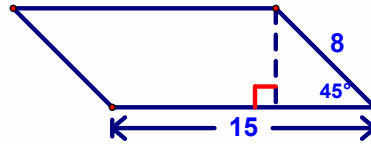10.

Find the area of each parallelogram to the nearest tenth.

   a.   **b.**
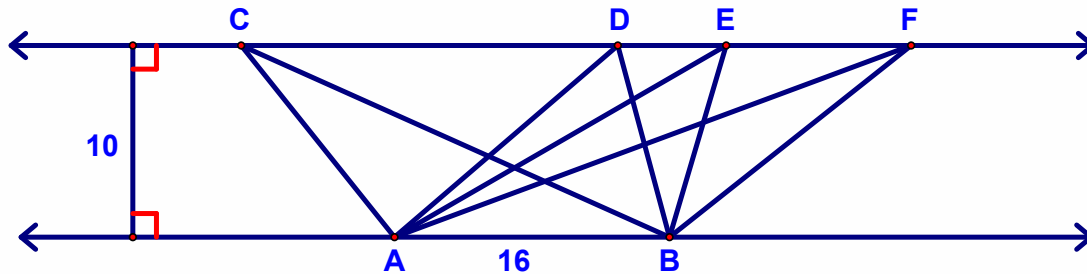

13.

A triangle has the same area as a 6-by-8 rectangle. The base of the triangle is 8. Find the altitude of the triangle.
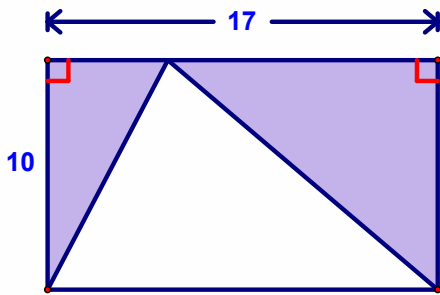
14.

Lines $\overleftrightarrow{CF}$ and $\overleftrightarrow{AB}$ are parallel and 10 mm apart. Several triangles with base $\overline{AB}$ and a vertex on $\overleftrightarrow{CF}$ have been drawn below. Which triangle has the largest area? Explain.

15.

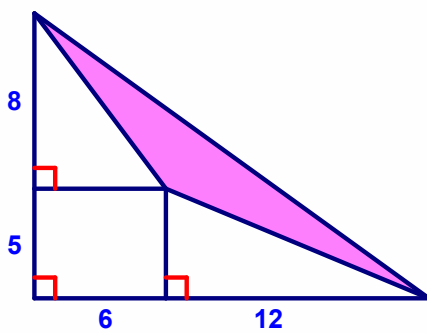**Find the area of the shaded region.**

16.

In a triangle, a base and its altitude are in a ratio of 3:2. The triangle's area is 48. Find the base and the altitude.

17.

Find the area of the shaded triangular region.

20.

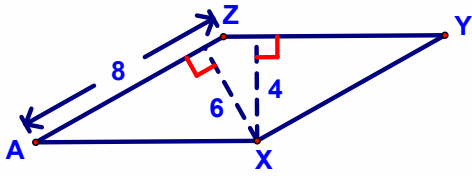**Find the area of an equilateral triangle with a perimeter of 45 m.**

23.

Find the area of △ABC with vertices A = (1, 3), B = (7, 3), and C = (4, -1)

24.

The hypotenuse of a right triangle is 50, and one leg is 14. Find the area of the triangle and the length of the altitude to the hypotenuse.
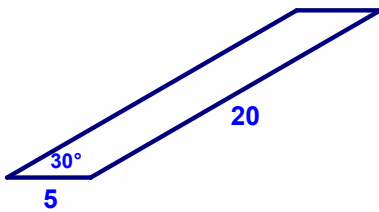
25.

Find AX and m∠A in ▱AXYZ.

29.

Find the area of the parallelogram

31.

The diagonals of a kite are 10 and 24. Find the kite's area.

32.

The perimeter of the parallelogram is 154. Find the parallelogram's area.