

NAME

My

DATE

SCORE

Practice 43

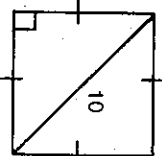
Areas of Polygons

Lessons 11-1 through 11-4

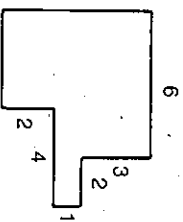
Find the area of each polygon.

1. A rectangle with sides 7 m and 5 m 35
2. A rectangle with one side 9 cm and with perimeter 34 cm 72
3. An equilateral triangle with sides of length 12 $36\sqrt{3}$
4. A parallelogram with base 11 and corresponding height 7 77
5. A rhombus with diagonals 10 cm and 12 cm 60
6. A trapezoid with bases 7 cm and 13 cm, and height 6 cm 60
7. Complete for a regular hexagon with side 18.
measure of a central angle = (60) radius = 18
apothem = $9\sqrt{3}$ area = $486\sqrt{3}$

Find the area of each of the following.

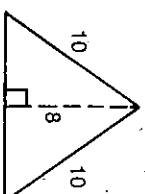


$$A = \underline{50}$$



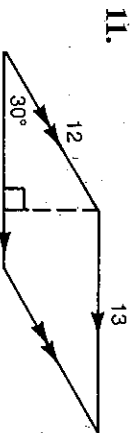
Consecutive sides are 1.

$$A = \underline{34}$$

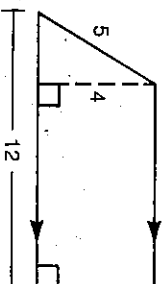


10.

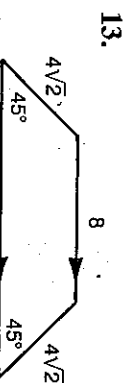
$$A = \underline{48}$$



$$A = \underline{78}$$

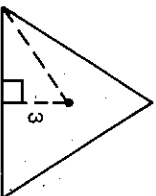


$$A = \underline{42}$$

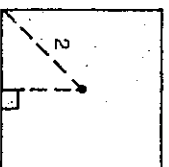


$$A = \underline{48}$$

Find the area of each regular polygon. The apothem and radius are shown.



$$A = \underline{27\sqrt{3}}$$



$$A = \underline{8}$$