NAME Key DATE _____ SCORE _____

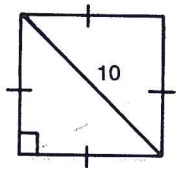
Practice 43
Areas of Polygons

Lessons 11-1 through 11-4

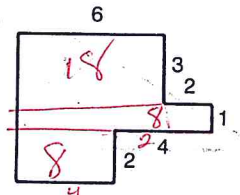
Find the area of each polygon.

1. A rectangle with sides 7 m and 5 m 35 m²
2. A rectangle with one side 9 cm and with perimeter 34 cm 72 cm²
3. An equilateral triangle with sides of length 12 $36\sqrt{3}$ u²
4. A parallelogram with base 11 and corresponding height 7 77 u²
5. A rhombus with diagonals 10 cm and 12 cm 60 cm²
6. A trapezoid with bases 7 cm and 13 cm, and height 6 cm 60 cm²
7. Complete for a regular hexagon with side 18.
   measure of a central angle = 60°
   apothem = $9\sqrt{3}$
   radius = 18
   area = $486\sqrt{3}$ u²

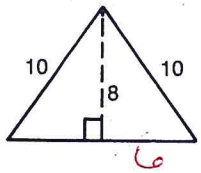
Find the area of each of the following.

8. 

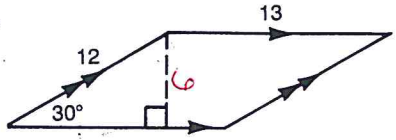
A = 50 u²

9. 

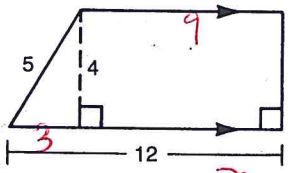
Consecutive sides are ⊥.
A = 34 u²

10. 

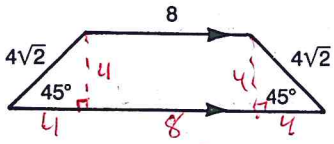
A = 48 u²

11. 

A = 78 u²

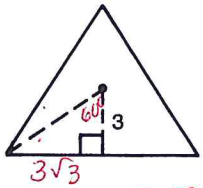
12. 

A = 42 u²

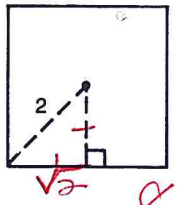
13. 

A = 48 u²

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

14. 

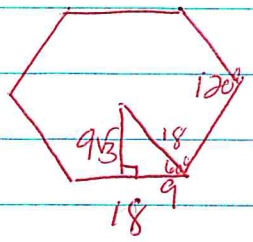
A = $27\sqrt{3}$ u²

15. 

A = 8 u²

Practice 43

7.) Hex. w/ side 18



$\frac{180(6-2)}{6} = 120$

$A = \frac{1}{2}$ apn

$A = \frac{1}{2}(9\sqrt{3})(18)(6)$

$= 484\sqrt{3}$