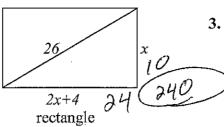
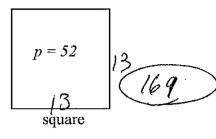
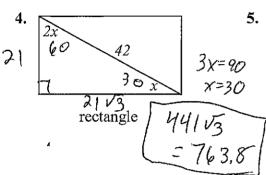
## Find the areas of the following.

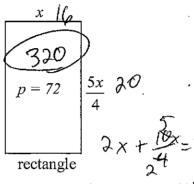
1. 18 162

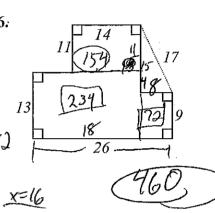
2. square







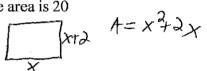




Solve the following word problems.

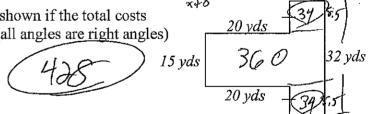
7. A rectangle has base and height which are consecutive even integers. If the area is 20 more than the square of the shorter side, what is the area of the rectangle?

X2+2x = 20+ X2 X=10 (120)



8. A square pool has a walkway around it which is 4 feet wide. If the area of the walkway is 384 square feet, find the area of the pool

9. How much will it cost to pave the driveway shown if the total costs (including blacktop) are \$12 per square yard? (all angles are right angles)



10. The perimeter of a room is 46 units, and its length is 3 more than its width, find its area.

## Answer #'s 11-13 with Always, Sometimes, or Never

2x + 2x + 6 = 46 4x = 40 x = 10

11. A scalene triangle has three altitudes of equal length. Never

- 12. Area of an equilateral triangle is  $\frac{s^2\sqrt{3}}{4}$
- 13. Figures that have equal areas are congruent. Sometimes
- 14. The area of a trapezoid is  $A = \frac{1}{2}mh$  MeVPY
- 15. An isosceles triangle has three altitudes of equal length. Some time ?
- 16. The area of a square inscribed in a circle of diameter d is  $\frac{1}{2}r^2$  Never

For #'s 14-23, find the areas of the given figures. 17. 162 V3 = 280.6 rhombus parallelogram  $\frac{8}{x} \frac{x}{24}$   $= \frac{8}{x^2} 8.8.3$   $= \frac{8}{x^3} \sqrt{3}$   $= \frac{1}{x^2} \sqrt{3}$   $= \frac{1}{x^3} \sqrt{3}$   $= \frac{1$ 20. 16 12-8 23. 21. *20* 336 rhombus 24. 25. 26. A=2.32.8√3 128√3 -201.7 Find the value of x for each of the following. 3x27. 28. 3x 3+32x-300°0 10 23 29. 30. (gO)

regular hexagon