11.1/11.2 Area Word Problems

Finding Area

Ex 1: A triangle has a base of 10 and a height of 8. Find its area.

Ex 2: A kite has diagonals of lengths 12 and 18. Find its area.

Ex 3: A rhombus had one half of a diagonal of length 10 and the other full diagonal of length 16. Find its area.

Using Pythagorean Theorem ~ Then Find the Area

Ex 4: A rhombus has sides of length 40 and one diagonal of length 64. Find its area.

Ex 5: A rectangle has a diagonal of length 26 and a width of length 10. Find its area.

Ex 6: A square has a diagonal of length 20. Find its area.

Ex 7: An isosceles triangle has sides of length 10, 10, and 18. Find its area.

Given the Area, find the Base or the Height

Ex 8: The area of a rectangle is 100 and its base has a length of 20. Find its height.

Ex 9: A triangle has an area of 80 and a height of 10. Find its base.

Given the Area, find the Perimeter

Ex 10: A square has an area of 144. Find its perimeter.

Using 30-60-90 & 45-45-90 Triangles

Ex 11: A 30-60-90 right triangle has a hypotenuse of length 18. Find its area.

Ex 12: A parallelogram has sides of length 10 and 15 and contains a 60˚ angle. Find its area.

Ex 13: An isosceles trapezoid has bases of length 10 and 24 and base angles of 45. Find its area.

Ex 14: An equilateral triangle has a side of 15. Find its area.