Test Topics for Right Triangle Unit – Feb 14-15

1) Know and use Pythagorean Theorem to find missing sides of right triangles (or altitudes or areas).
2) Use Pyth. Theorem to solve word problems.
3) Use the converse of the Pyth. Theorem to determine right, obtuse, acute triangle.
4) Use 30-60-90 and 45-45-90 shortcut conjectures to find side lengths when you only know one side.
5) Find the coordinates of a point on a circle given a radius and an angle of 30, 45, or 60°.
6) Know 2 Pythagorean prime triples. Be able to find multiples from these.
7) Know and be able to use the distance formula to determine what type of figure given vertices only.
8) Be able to write an equation of a circle given center and radius or other information.
9) Simplify radicals (like p 474:1-14)
10) Write trig ratios from sketches of triangles.
11) Solve problems for unknown distances or angles using correct trig ratio.
12) Find area of isosceles or equilateral triangle

Vocab: legs, hypotenuse, triples, prime triples

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