DIRECTIONS: P-I-E (Pencil, Ink, Erase) First use PENCIL, Draw the Red ink in each step. Then INK all lines, ERASE Pencil. COLOR

#1. In pencil, lightly draw nested circles. The outer ring is 9 units and the inner ring is 6.5 units.

#2. Make light pencil guidelines that divide the outer ring into halves, then quarters, then eights, then sixteenths.

#3. Divide the inner ring into sixteenths that are centered between outers. Note that these marks are closer together.

#4. Use these guides to pencil in evenly spaced, symmetrically shaped wavy lines that form the gear cogs.

#5. Aligned with the inner dip of the cogs on the lower right, draw another set of slightly smaller nested circles.

#6. Use the inner dip of the first cog as hashmark 1 on this new circle and continue dividing into TWELVE sections. Divide the inner ring as well.

#7. Use the hashes from step 6 to draw the cogs.

#8. In the same way add a third gear circle to the lower left. Divide it into NINE sections, with the first hash meeting the inside dip where the circles intersect.

#9. Complete the cogs on the third gear.

#10. Erase pencil.

#11. Draw circles in the center of each gear as a spindle.

#12. Draw an offset line on the left side of every cog and spindle.

#13. If desired, add some ‘cut-out’ areas in the gears.

#14. Color with metallic tones. I added metal plates and screws in the background.

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