

A Thanksgiving Turkey

I hope you gobble it right up and feast on the fun!

Scoring based on completion of each of the below. The more colorful and creative....the higher the score! Have fun with it!

- 🐔 **1 pts** Draw a segment 15cm long.
- 🐔 **2 pts** Construct an equilateral triangle with the given segment. Extend the base of the your triangle out (lightly) so that it measures 30cm.
- 🐔 **2 pts** Construct the Altitude of the Triangle to the base.
- 🐔 **3 pts** Locate the centroid of the triangle and mark the altitude into thirds once you find the centroid. (the centroid is where the medians intersect)
- 🐔 **1 pts** Placing your compass on the base center of the triangle and measuring to each “third” marks from your centroid, create three large arcs through all rays of the angles. (hint: from base to centroid; from base to the next third mark; from base to the vertex of the angle)
- 🐔 **6 pts** Bisect the intersection of the Altitude and base into 4 - 22.5° angles on each side. You can use the arc from the centroid as your mark for bisecting the angles. (8 total - these will be your feathers).
- 🐔 **8 pts** Construct the tips of the feathers by measuring the distance from the intersection of one ray with the largest arc to the next intersection, and swinging an arc. Do the same on the other side. This will create the tips of your feathers. 😊
- 🐔 **1 pts** Construct a circular head with the center at the vertex of the equilateral triangle. .
- 🐔 **1 pts** Construct a head and beak. Also, draw a “wattle” and “snood”. (hint: for the beak - place the compass on the intersection of the “head circle” with triangle and swing and arc of any distance, then do the same on the other side.)
- 🐔 **2 pts** Construct a “belly” by inscribing a circle in side the equilateral triangle (hint: remember the equilateral triangle property! It will save you time!)
- 🐔 **1 pts** Construct any other object you wish.
- 🐔 **4 pts** Color and decorate your turkey to your satisfaction.
- 🐔 **3 pts** For creativity, color and quality.

_____ **35 points possible**

