



The Three Muses by Mark Oros hahsnustones.com

I enjoy creating new gemstone designs for several reasons. It could be a request from a jeweler, or having inspiration from a spectacular new piece of rough gemstone, and then again, sometimes I design a just gemstone for fun. So, for the record, this gemstone design is just for fun. This design has been something I have been playing with for over a year. It started with my inclination to do something with the number 3. This desire stems from being a father of triplets. A three-sided stone seemed too edgy and a three main facet pavilion was rejected for poor light return after viewing it in GemRay. I then considered and moved forward with the option of combining/replacing the table with three low angle facets.

I was very happy with the new design and cut it in several types of gemstone material and with increasingly progressive designs. After several escalating designs, all of them becoming exceedingly more complex, up to 171 facets, I stopped designing and cutting variations on my triplet theme. The process of designing and selling this motif was fun, profitable (becoming a favorite with my clients), and educational as the process let me explore the nature of "variations on a theme."

I wanted to share the enjoyment I had on the journey of exploring this design by writing an article about it so I fired up GemCad and revisited this old friend. I thought about how serious the design became over its various iterations and decided to scale back on the complexity and number of facets. I wanted to accomplish three things with the new design.

1. I wanted to make the stone easy to cut by providing a simpler and meet-point design that would allow all facetors a chance to try this fun stone.
2. The stone needed to be unusual and attractive enough to provide both your friends and mine with a fun time holding and viewing the gemstone or receiving it as a gift.

- I also wanted the faceter to have the ability to make the gemstone unique. This can easily be done by adding concave facets and matte (frosted) facets. The most attractive and reasonable place to put the small concave facets is in the culet of the gemstone (P4 on the cutting instructions). The matte facets can be played in many combinations. Two of my favorites are [P3 & C2] or [P4 and C1].

After about 30 minutes of creativity on GemCad and GemRay, I was able to produce a gemstone design that I thought was fun to cut and beautiful. It starts with a somewhat traditional star cut on the pavilion and goes to a rather unusual crown going from nine break facets to a tier of six facets, and then two tiers of three facets with no traditional table. I used quartz as the gemstone material when creating the design because I wanted to cut large natural gemstones in several colors without excessive costs. I hope that you have as much fun cutting this gemstone as I had creating it. The gemstone is named "Three Muses".



Citrine - Brazil
8.29 carats
All facets are polished
Faceted by Michael Rizzo

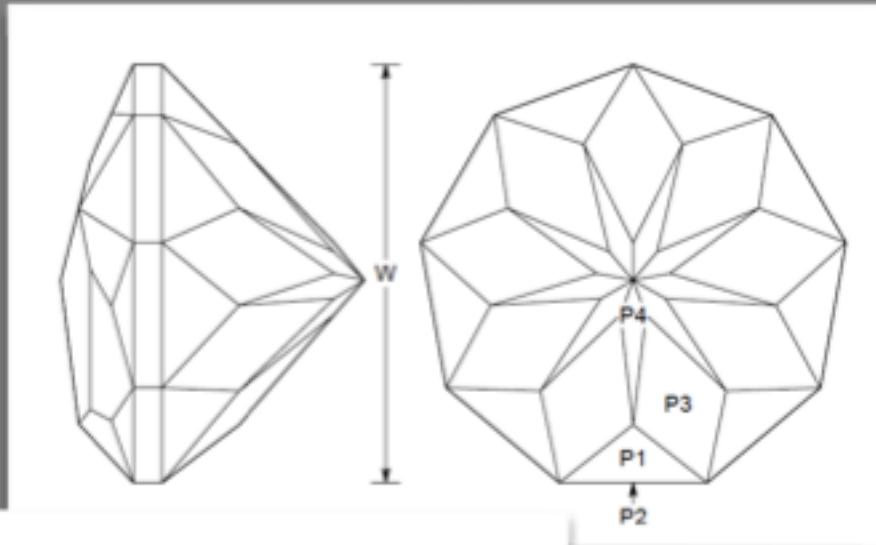


Ametrine - Bolivia
7.87 carats
P4 facets matted
Faceted by Mark Oros

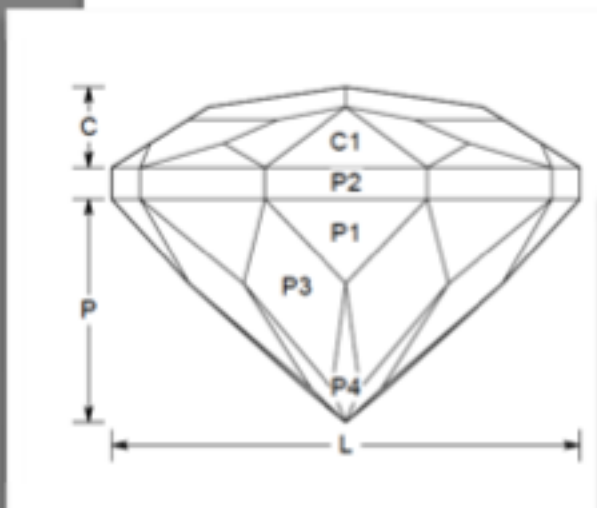


Amethyst - Brazil
8.49 carats
P3 facets are matted &
P4 facets are concave
Faceted by Michael Rizzo

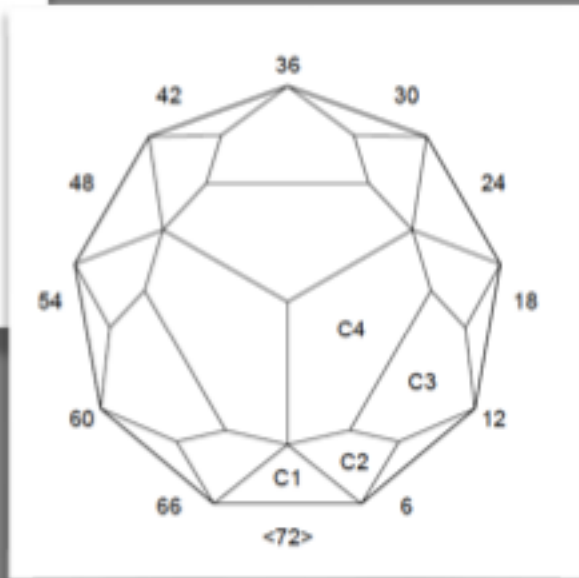
Three Muses



Pavilion View



Side View



Crown View

Diagrams & Instructions
By GemCad

Instructions for 72 Index:

Pavilion

Cut P1 to a temporary center-point at 53° on 72 - 08 - 16 - 24 - 32 - 40 - 48 - 56 - 64

Cut P2 to set stone size at 90° on 72 - 08 - 16 - 24 - 32 - 40 - 48 - 56 - 64

Cut P3 to meet girdle at 44° on 04 - 12 - 20 - 28 - 36 - 44 - 52 - 60 - 68

Cut P4 to meet P1 & P3 at 41° on 72 - 08 - 16 - 24 - 32 - 40 - 48 - 56 - 64

Crown

Cut C1 to set girdle depth at 43° on 72 - 08 - 16 - 24 - 32 - 40 - 48 - 56 - 64

Cut C2 to meet girdle at 32° on 06 - 18 - 30 - 42 - 54 - 66

Cut C3 to meet girdle at 24° on 12 - 36 - 60

Cut C4 to meet C1 at 14° on 12 - 36 - 60