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# Dodecahedrone Star

Scalable 25 cm.

Design : Kent Laursen



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## Instructions.

### 1. Printing and scaling.

The templates can be printed on both international paper size (A4 - 210 x 207 mm). And US paper size (Letter – 8,5 x 11 inches). You can experiment with scaling in the printer settings to make smaller or larger models.

If you want to print many copies of your stencils, to experiment with, you can choose to only print the stencils and not the instruction pages, by adding the page number of the stencils into your printer dialog box.

### 2. How to build it, short version.

Cut out, and assemble a model of thin copypaper, so you get familiar with, which of the following techniques you like the most. Print another pair of sheets, and use them as stencils for thicker paper or other materials of your own choice. Cut it out, glue it together. Or alternatively, cut it out without tabs, and use sticky tape. Try eventually to paint it or cover it with other materials. Only your imagination is the limit.

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### 3. Tools and Gluing.

You can use a utility knife and a cutting mat, or a pair of scissors to cut out the stencils.

A glue stick or white wood glue and a brush to glue the tabs, if you choose to build the model as a tabbed construction. If you choose to build the models without tabs, you can use all kinds of sticky tape, or paper strips you cut out, with glue on.

You can print out an extra copy of the stencils and try out, what is the best for you.

If you use glue or glue stick, you have the opportunity to slide the parts in place, for a short while, while the glue is still wet. If you use tape, it sticks immediately, unless you make your own tape out of paper strips and glue.

### 4. Marking up.

If you want to use thicker material than your printer can handle, you need to use a pair of prints, on thin copy machine paper, as a stencil. Apply the thin stencil to the thick paper or cardboard, with glue (on places where there is waste material) or attach the stencil to the thicker material with a staple gun. Now you can cut out the parts on a cutting mat with a utility knife. It can be very helpful to draw all lines up on the stencil, with a ball pen and a ruler, before you cut the model out. (Take your time, the more precise, the better the result). If you add pressure you can make bending lines and cutting lines, visible on the thick material under the thin copy machine paper. It makes it much easier to fold your parts, and to cut it too.

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If you want to make the parts in metal or wood board or thick plastic, you can glue the copy machine paper stencil on top of the material with spray mount (the removable or remount able one) or double sided sticky tape. And then cut directly after the lines on the stencil. If you make the parts in a material which you can't bend, you have to make each flat geometry, as a separate part. The parts can be held together with duck tape on the backside, or by other sticky tapes, materials, sowings or even hinges.

## 5. Cutting.

In thinner materials you can use a pair of scissors. If you cut more than one layer (stencil on top of other material) be aware that the precision depends on, that the two layers doesn't slide, which they tend to do if you don't fix the them properly to each other.

A cutting mat and a utility knife is the way to go, if you want to work with a stencil on top of thicker materials. In a thick material, its more safe and precise if you don't try to cut through the material at once, but cut many times over the same line along a ruler. In this way, the knife is easier to handle and the result is nicer. If you try to cut through thick material in one cut, it's not easy to keep the knife along the ruler without using a lot of force, which can lead to a dangerous situation if the blade is breaking of, or if the ruler is sliding.

Do not let children use a utility knife. A pair of scissors and a thinner material will do. Or you must do the cutting out, for them.

**Take your time, it's better to work slow and keep safe.**

## 6. Folding.

If you want a sharp result it can be a great help to bend the edges over a ruler or even better, prepare the edges before you bend them, by dragging a knitting needle or a ball pen or a bone folder (book binders tool) over the bending lines along a ruler. The groove it makes, will give you sharper edges and an easier project. And as mentioned before, you can attach the stencil on the backside of the material and make the model mirrored, for perfect edge result.

**Small dotted lines are bent in a direction, as were they a rooftop. Large dotted lines the opposite way.**

## 7. Materials.

You can make the model in many kinds of paper or cardboard. The thicker the material, the longer time it takes to build it. But then again, the product will last longer. You can experiment with making the product in leather, plywood, plastic or metal, all depending of your skills and experience. After the model is made you can cover it with fabric, sticky foil, or fake fur, maybe you can use a model to cast plaster gauze over (roll bandages with plaster)

You can also try to spray glue on the model and cover it with "gold dust", sand, pearls or at lot of other materials. If you want to cover a papermodel with a wet material, you can make the paper watertight with shellac, warmish, strips of tape, plastic wraps or aluminium foil.

**Be aware of, only to use materials that are not hazardous for your health. And if necessary, wear eye protection, mask or respirator, and protect your skin against chemicals.**

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**Always read the instructions on the materials you use for building your projects. Don't use anything you don't know the content of. Don't use epoxy, isocyanate or PU glue (brown polyurethane glue) it can cause allergic reactions for the rest of your life, if you touch it one time.**

## 8 Share your work.

Upload a picture of your project to facebook, instagram or Pinterest, and tag your photos with the hashtag #kentlaursen to share them with our community. Get a lot of inspiration and inspire other people around the world.

## 9 Take care.

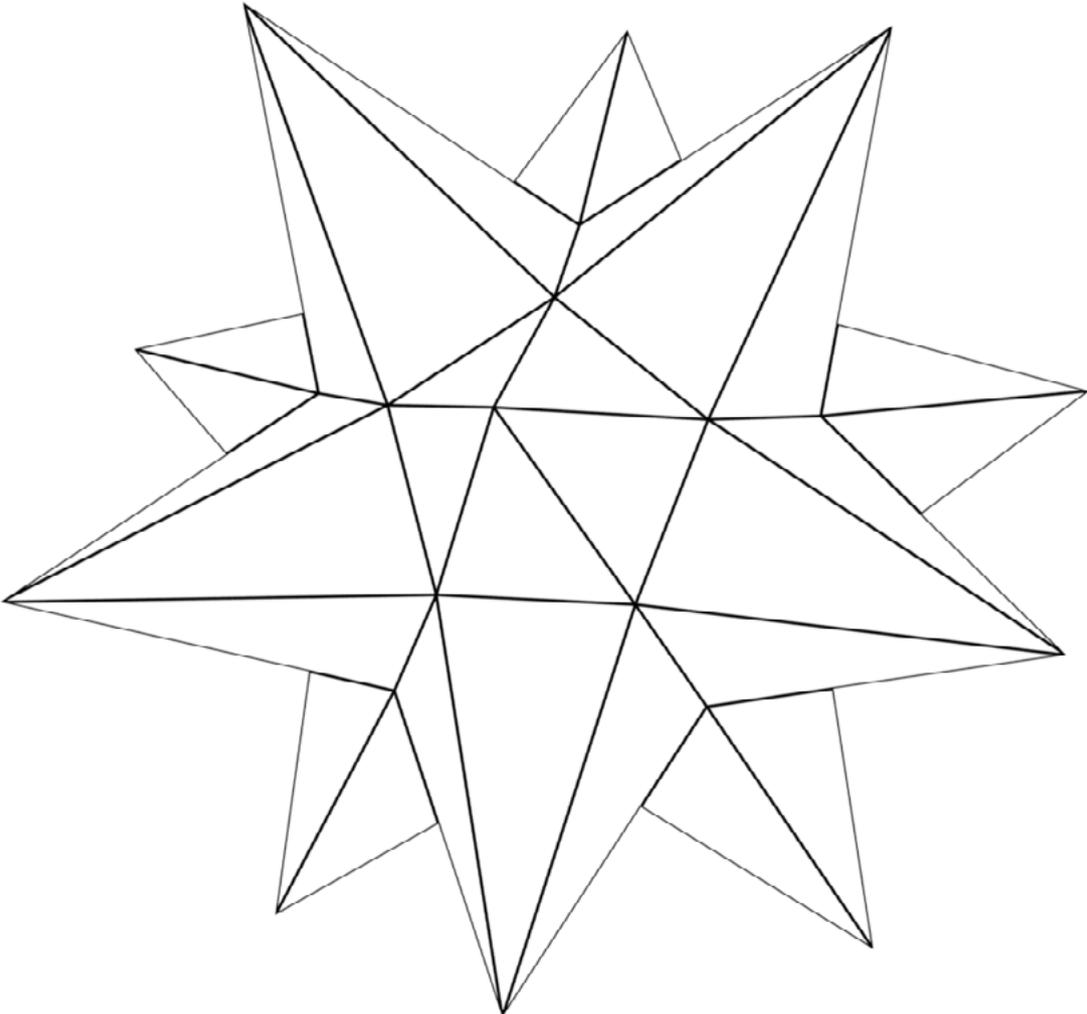
Have fun, take your time and watch your fingers. Be aware of that the utility knife blade can brake of, if you add too much force to it during cutting. Always use it in a way that you dont get surprised if it is breaking into flying pieces, and watch your eyes, as particles of the broken blade can harm your sight forever. Always cut in a way, that you don't cut yourself, if the blade slips or slides during your work. Always lock the knifeblade in a position, where the knifeblade, only just, is long enough, to get throught the material you are cutting in. We recommend using eye protection, when you work with a utility knife. Better safe than sorry.

## 10 Get more info.

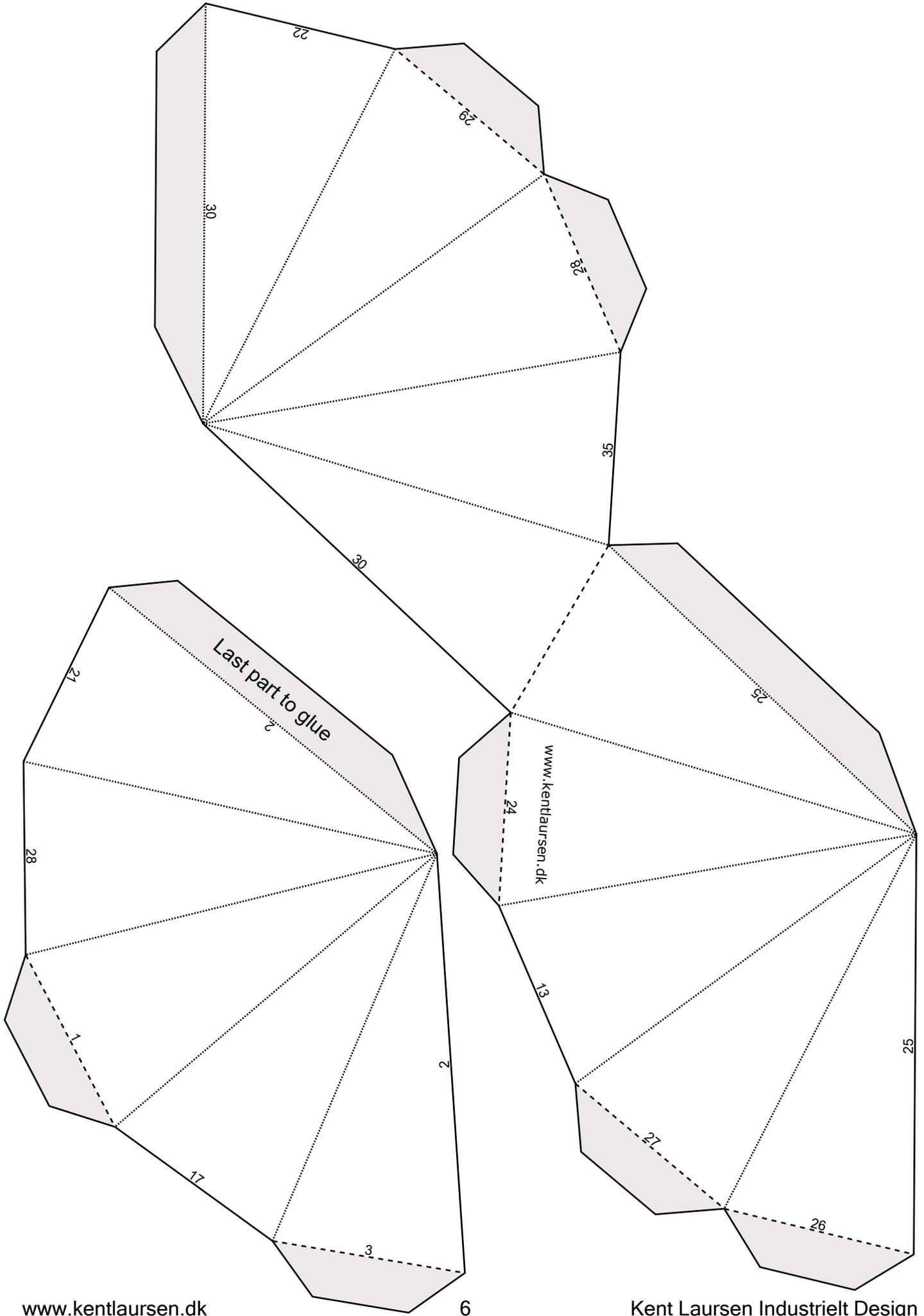
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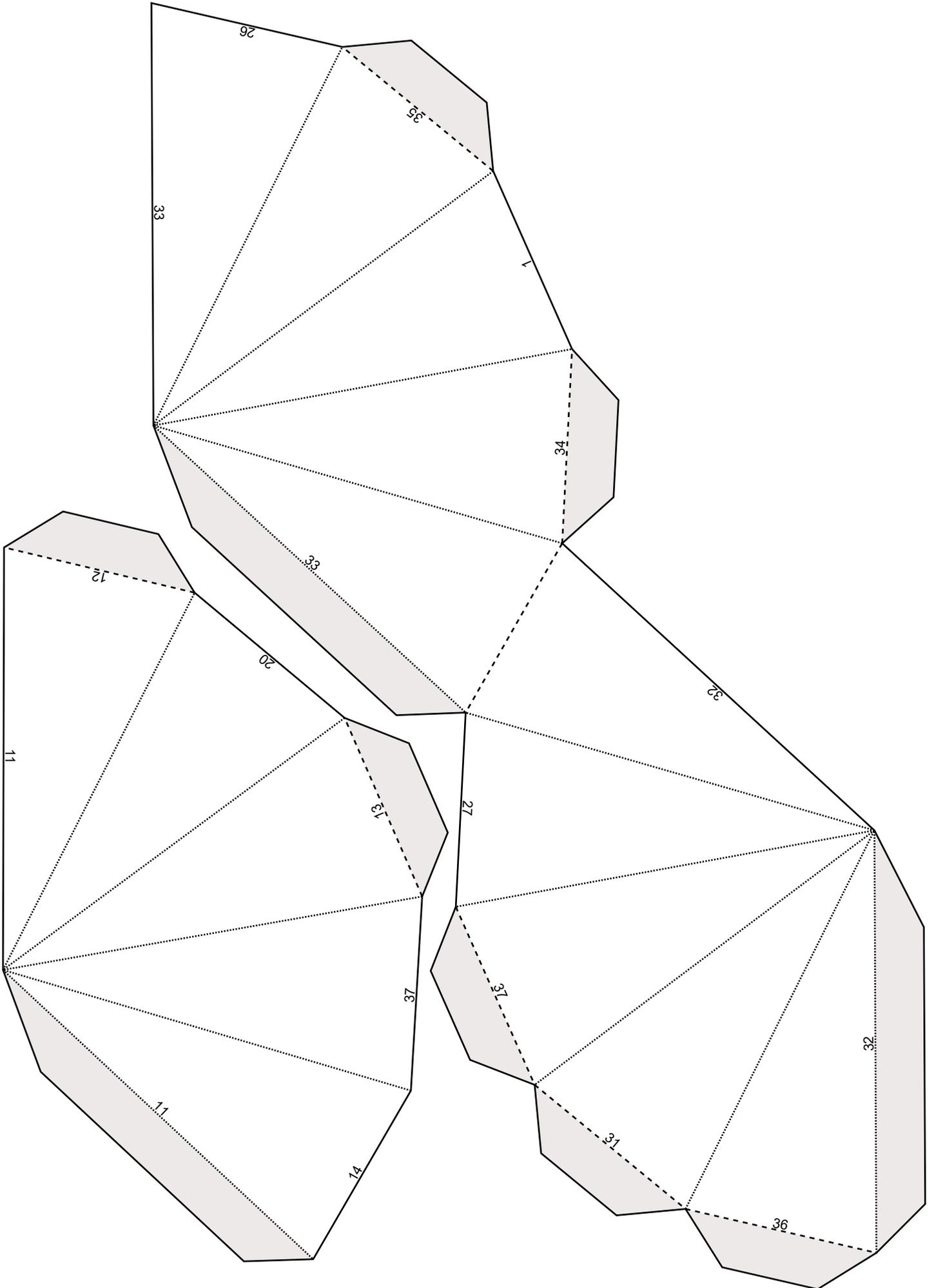
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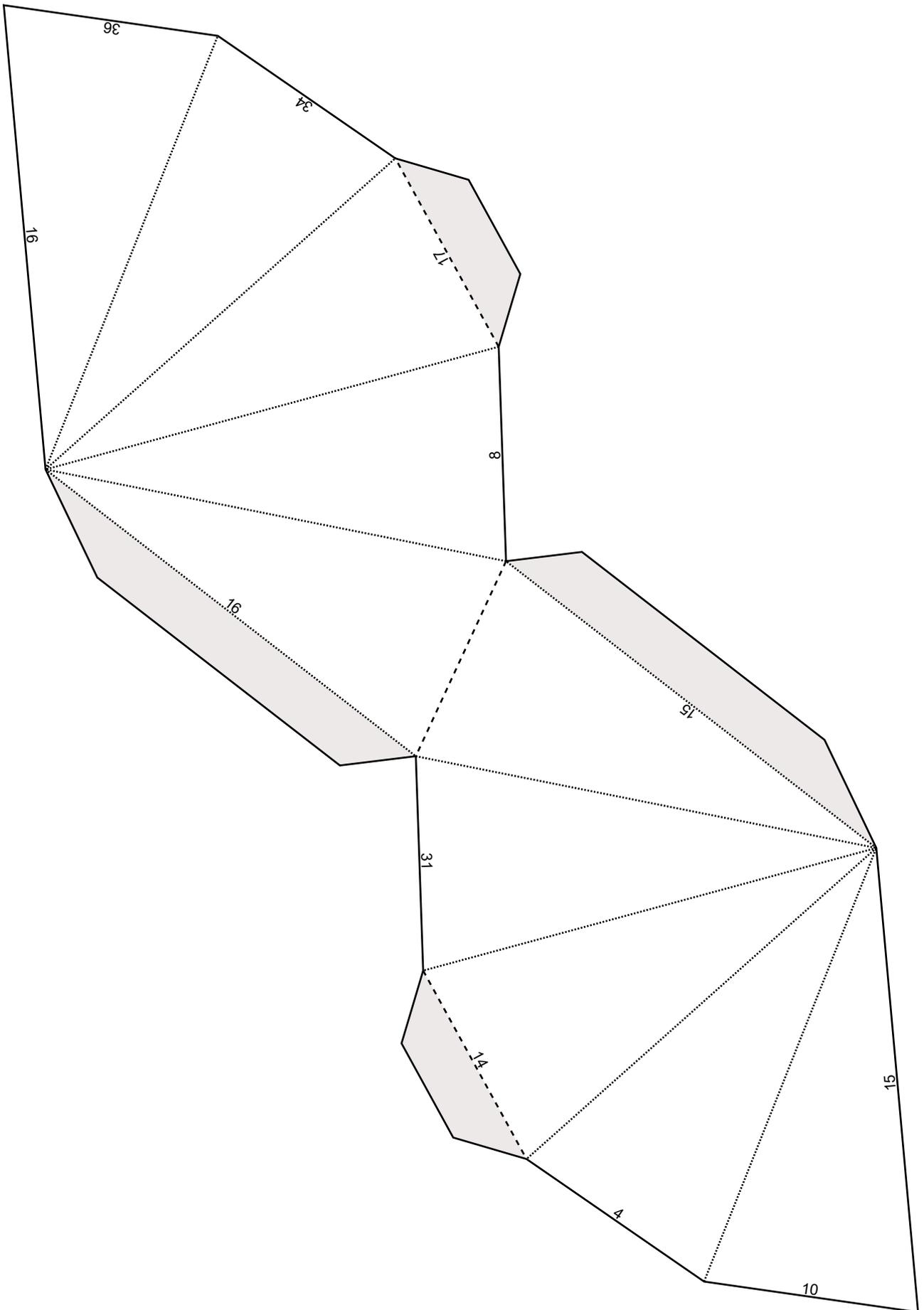


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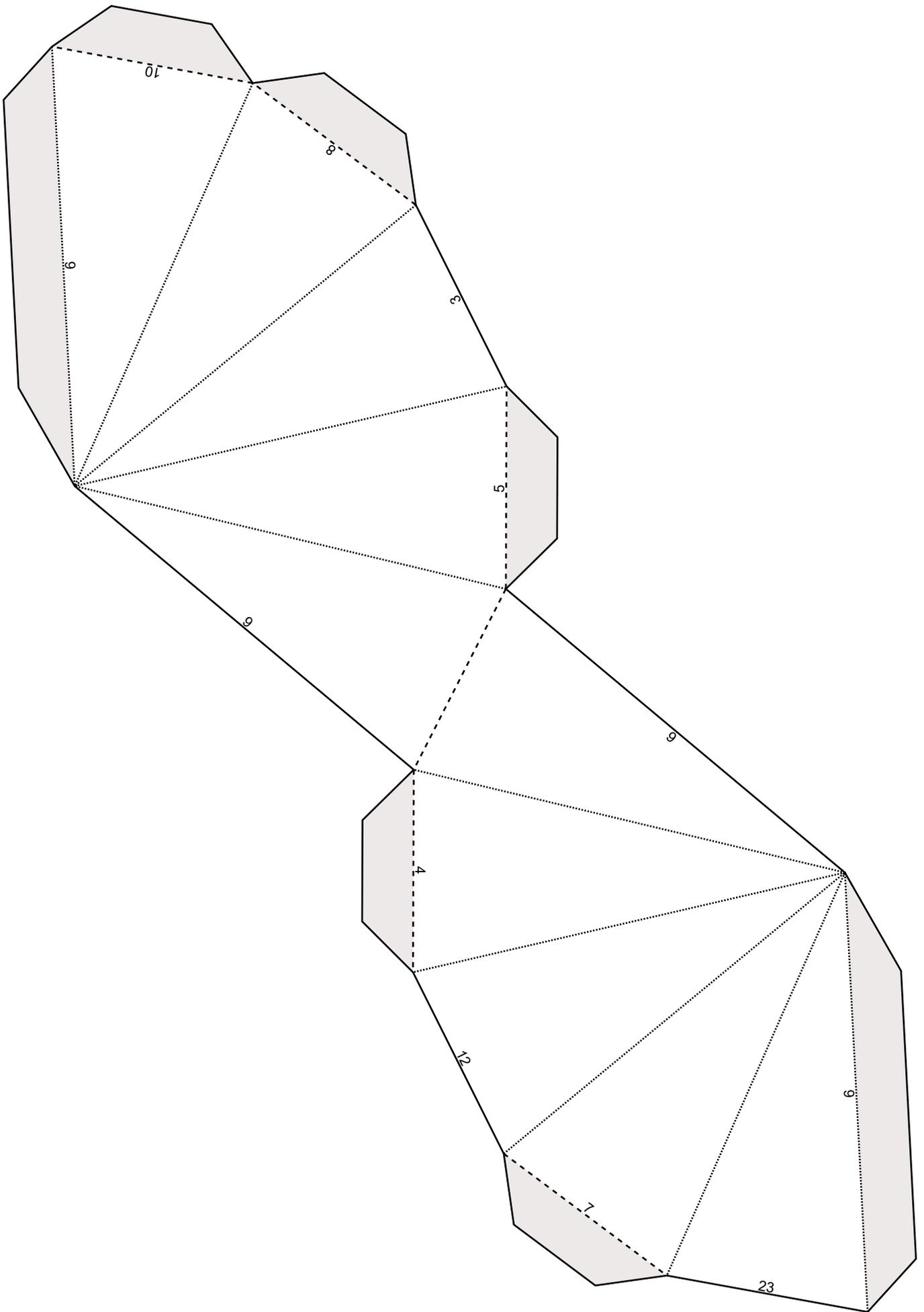


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