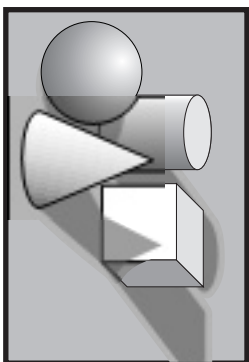Help yourself with a sketch pencil and give chiaroscuro to the following volumes (also give the layout chiaroscuro) attending to the given light direction that shows the outlines of the cast shadows. The result must look like the miniature.
If you use a soft lead pencil (2B-6B) you will work more comfortable and more efficiently.
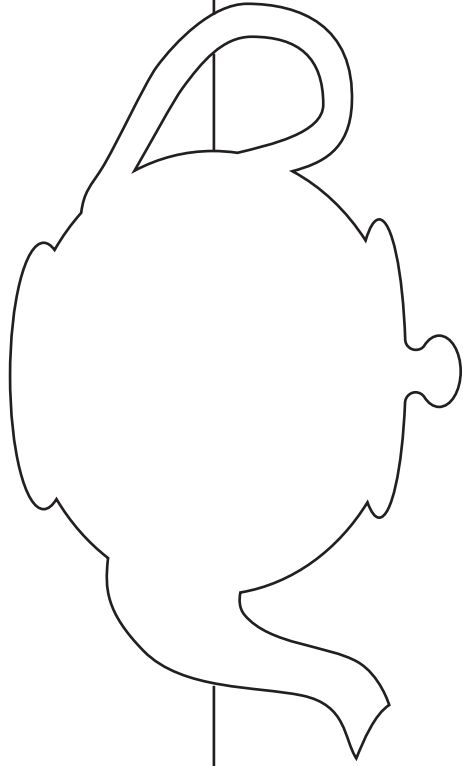
Group:	Last name, Name	Date:

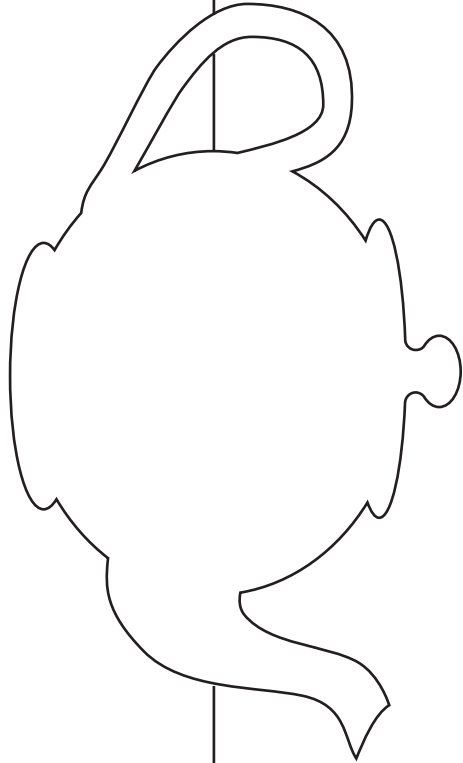|	Worksheet title:
laslaminas.es	25- CHIAROSCURO

Fill in the tea pot silhouette as well as the layout attending to the light directions given in each box. 1st- Draw a griasille (all the surface with a medium gray). 2nd- Get the light areas rubbing out the grisaille with an eraser and draw the darkest shadows. 3rd- Draw intermediate values between the three values (Light, medium and dark) obtained in the previous step. Using soft lead pencils (2B-6B) is recomended to enjoy the work better and being more efficient.
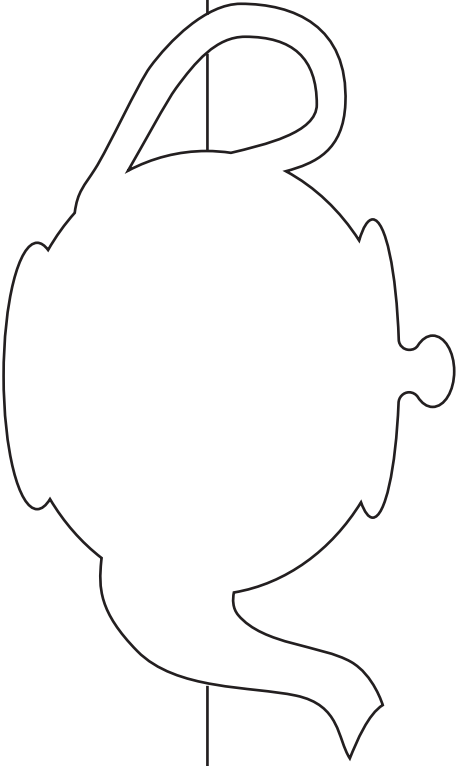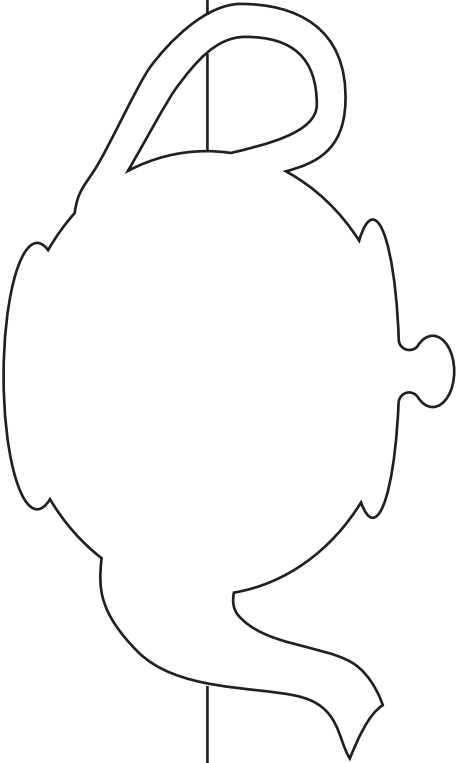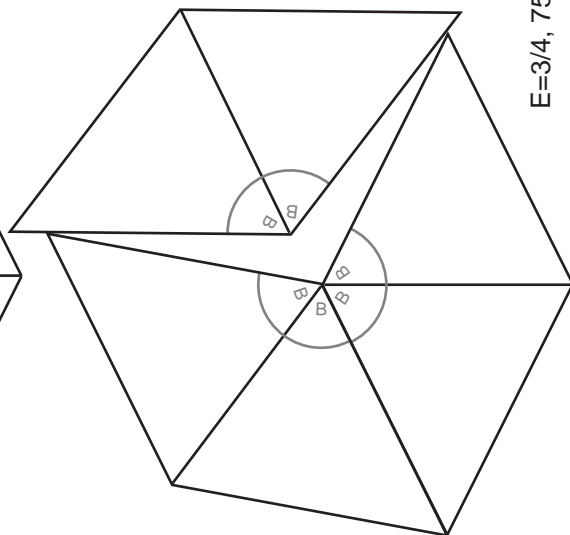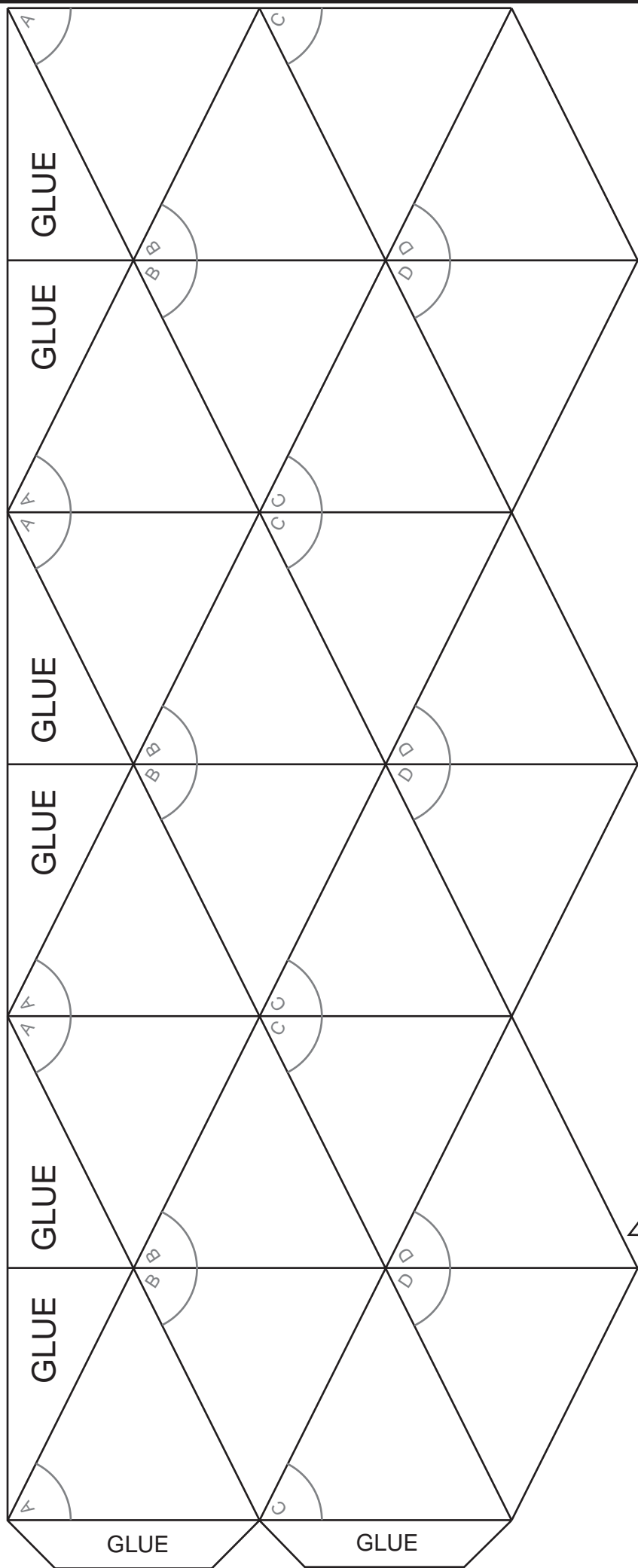
SIDE LIGHT

FRONT LIGHT

OVER HEAD LIGHT

BACK LIGHT

Group:

Last name, Name

Date:

Worksheet title:

26- LIGHT DIRECTIONS

GLUE

A

GLUE

GLUE

B B

A A

A A

B B

GLUE

GLUE

GLUE

C

C C

D D

C C

D D
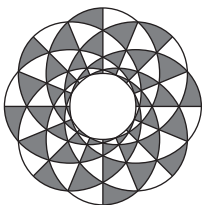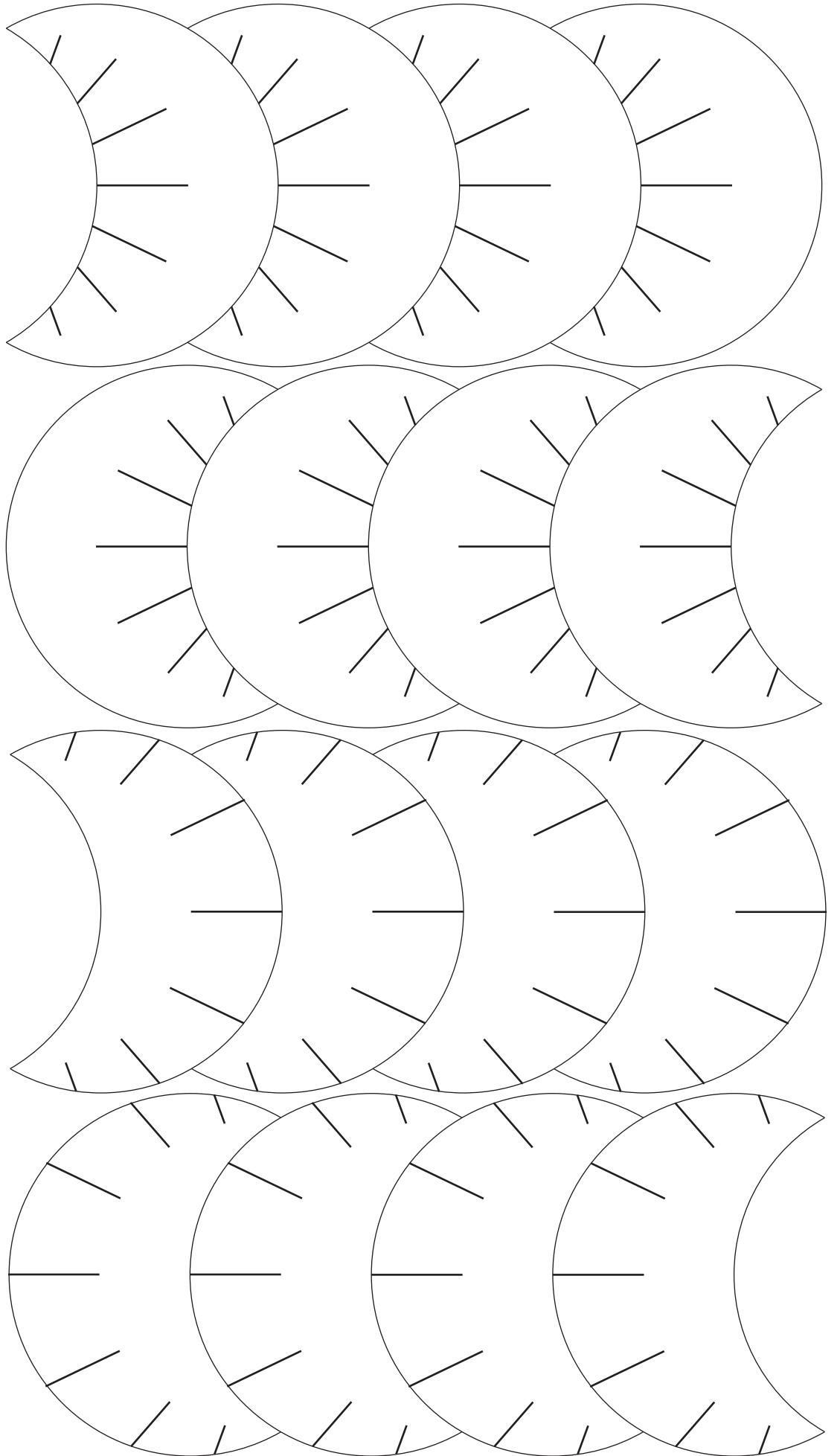
GLUE

GLUE

GLUE

B B

D

A

C

GLUE

GLUE

KALEIDOCYCLE: Kalós (beautyful) + eîdos (figure) + kyklos (ring).
In 1958 the graphic designer **Wallace Walker** discovered, as derivated from a triangular grid called ISO-AXIS patented by him, a series of Kaleidocycles.
Kaleidocycles or flexagons are rings formed by tetrahedra, not necesarely regular, conected one after another through one their edges. Flexagons can be turned or fliped arround theirselves in an infinite number of times without being deformed.
In 1977 Walker contacted the matematician **Doris Schattschneider** and together they publish a book with Taschen publishers called **"M. C. Escher, Kaleidocycles"** in which they present ten flexagons and six solids whose faces are decorated with motifs coming from the Dutch artist Escher.

B B

B B

B B

E=3/4, 75%

27- KALEIDOCYCLE

28-TORUS STRUCTURE
VILLARCEAU CIRCLES