HOW TO MAKE A HEXA-HEXAFLEXAGON

1.

a

2 cm

Use a strip of paper 4 cm x 45.5 cm (1.5" x 18"). Mark 2 cm in from one short end '**a**'.

2.

a

fold

bottom corner of paper
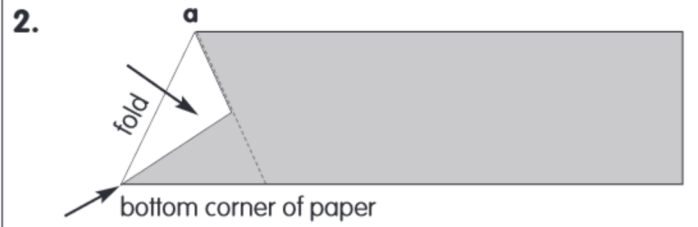
Make a diagonal fold to make a triangle. Start at the 2 cm mark '**a**'. This will be the **top** of your triangle. Line up '**a**' with the bottom corner of the paper and fold.
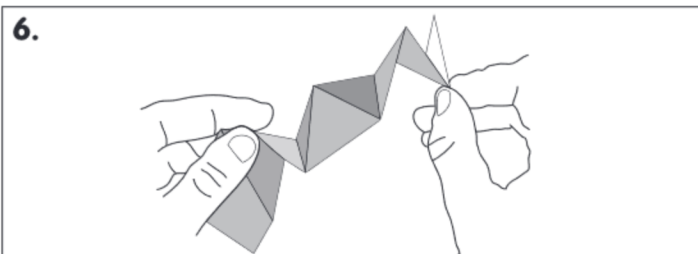
3.

a

fold

b
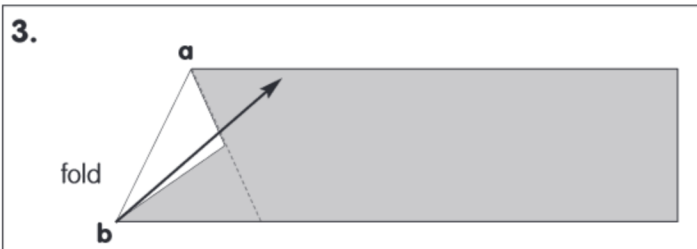
Make a diagonal fold from '**b**' to the top of the long strip of paper. Line up '**ab**' along the edge of the top of the paper.

4.

a   b

You should have an equilateral triangle.

5.

Open the paper and trim the extra paper off the end.

6.

Accordion fold the triangles along the whole strip of paper. There should be 19 triangles. Trim the extra paper off the end.

7.

no number in last triangle

2 1 3 2 1 3 2 1 3
1 3 2 1 3 2 1 3 2

Place the paper so the first triangle is pointing up. Number it '**1**'. Continue numbering the triangles '**1, 2, 3**' as shown. Do not number the last triangle.

8.

no number in first triangle

4 5 6 4 5 6 4 5 6
4 5 6 4 5 6 4 5 6

Flip the paper over so the first triangle is pointing down. Do **not** number it. Number the next two triangles '**4**'. Continue numbering the triangles '**5, 5, 6, 6, 4, 4**' as shown.
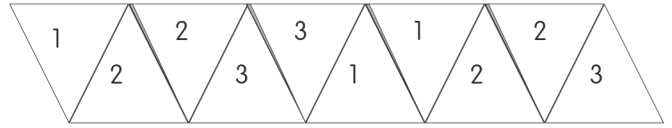
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9.
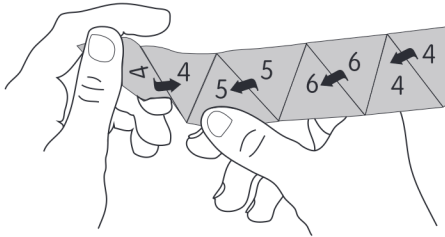
Fold the first two number '**4**' triangles on top of each other. Next fold the two number '**5**' triangles on top of each other. Continue along the strip folding all the pairs of numbers on top of each other. You will make a flat spiral.

10.

When you flip the paper over it should read **1**, **2**, **2**, **3**, **3**, **1**, **1**, **2**, **2**, **3**. This is side '**B**'.
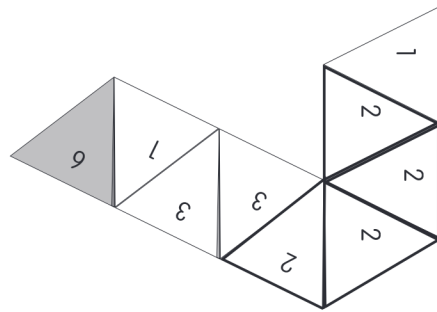
11.

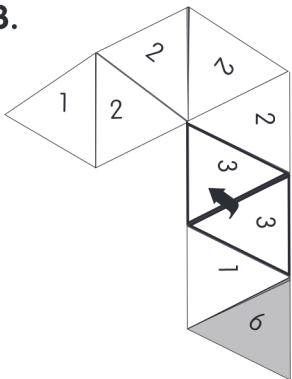Place the paper with side '**B**' facing up and '**1**' at the top.

Fold the bottom number '**3**' triangle over and on top of the **top** number '**3**' triangle.
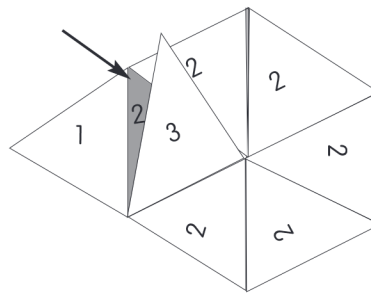
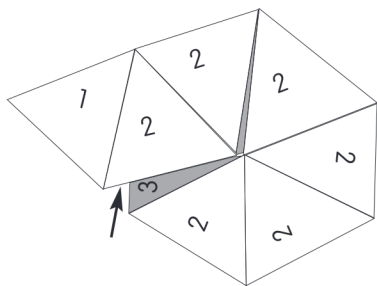**12.**

You should see four number '**2**' triangles.

13.

Rotate the paper so the number '**2**' triangles are at the top. Fold the bottom number '**3**' triangle over and on top of the **top** number '**3**' triangle.
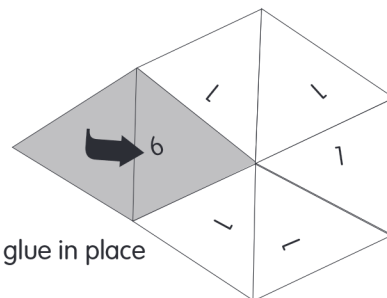
14.

You should see five number '**2**' triangles. Another number '**2**' triangle is under the number '**3**' triangle.

15

Tuck the number '**3**' triangle under the number '**2**' triangle. You should see six number '**2**' triangles.

16.

glue in place

Flip the paper over. Glue the blank triangle to the number '**6**' triangle. You should see six number '**1**' triangles.