



The Improving Mathematics Education in Schools (TIMES) Project

The Versatile Circle

*A conversation about the properties of
2D shapes and 3D objects*

With thanks to Peter Carmichael, Principal Project Officer -
QCAR Mathematics, Nambour

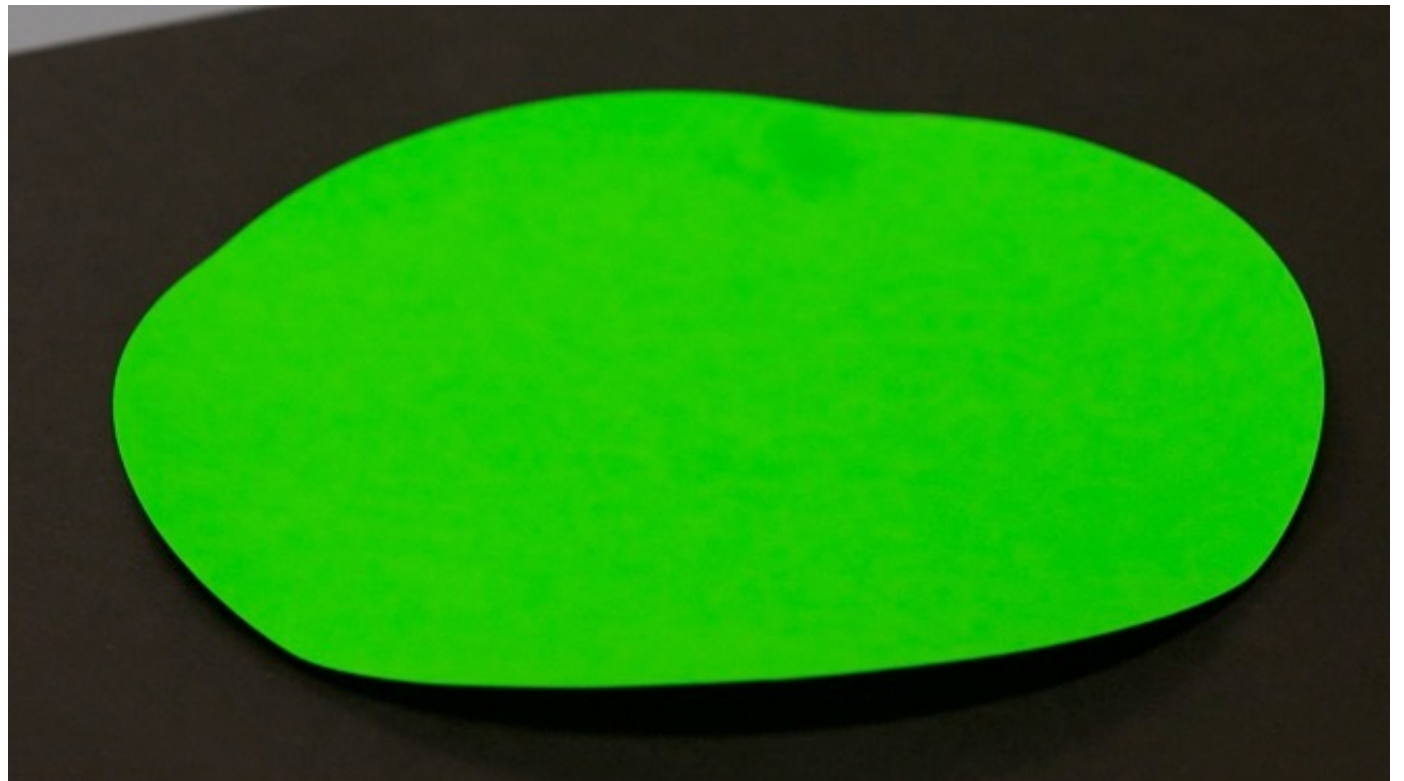
The Versatile Circle

A conversation about the properties of some 2D shapes and 3D objects

Begin with a piece of paper in the shape of a circle.

What are its properties?

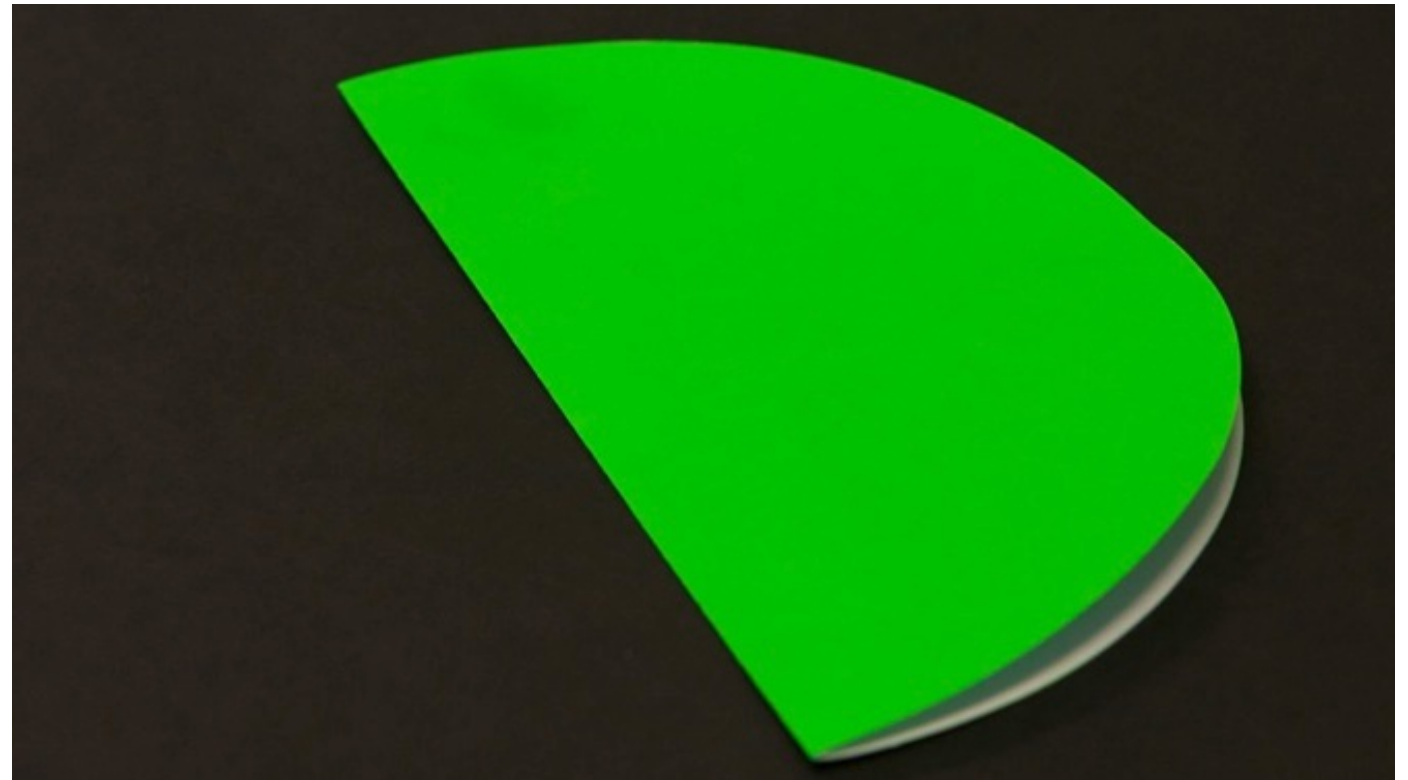
How can we find the exact centre?



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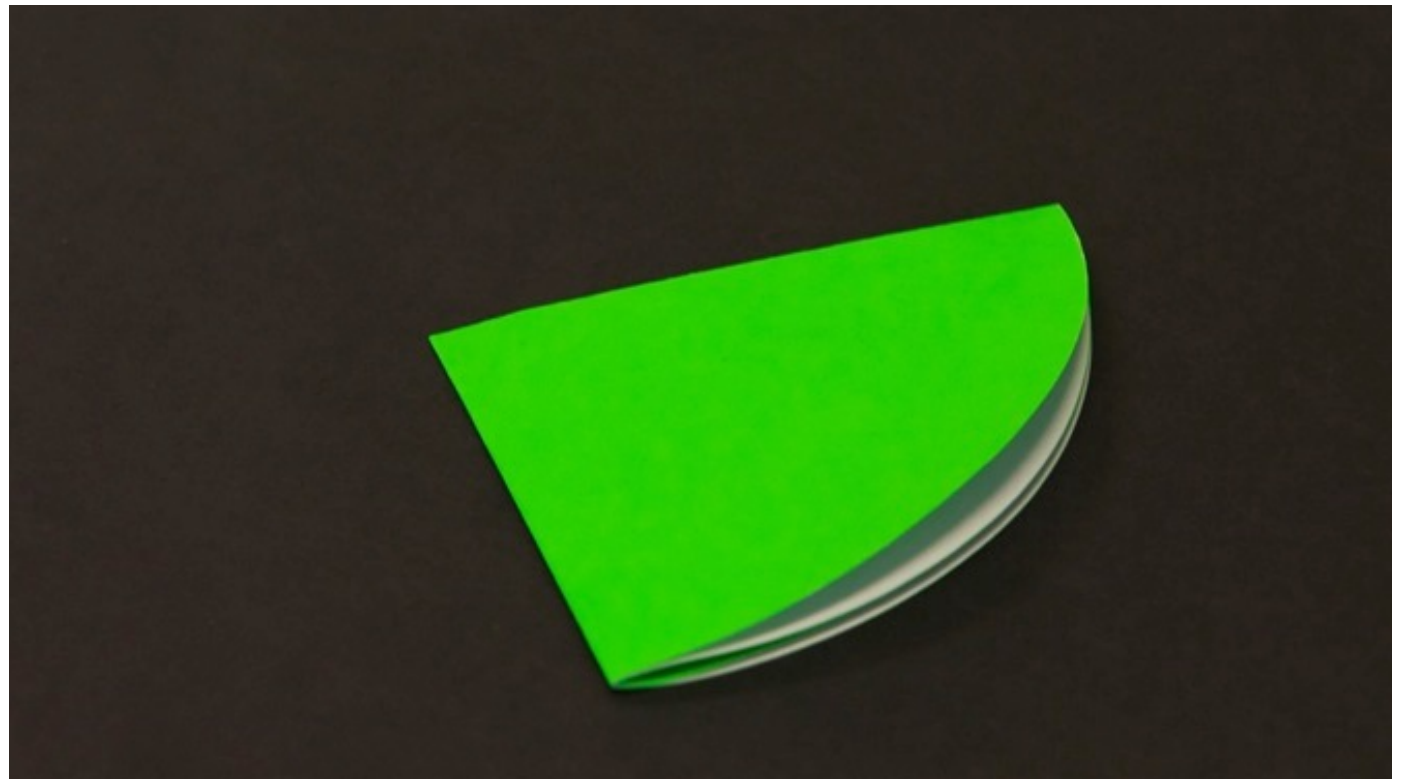
semi circle



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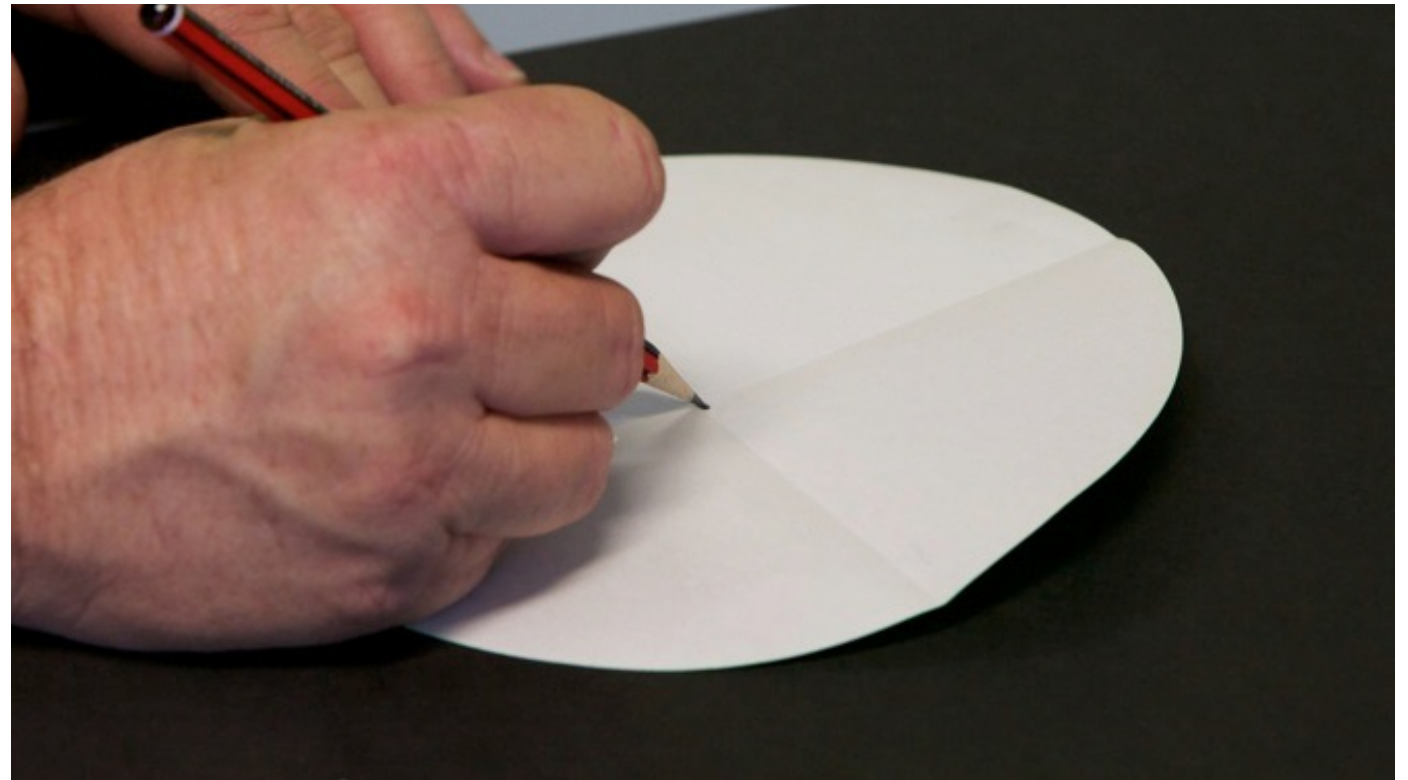
quadrant



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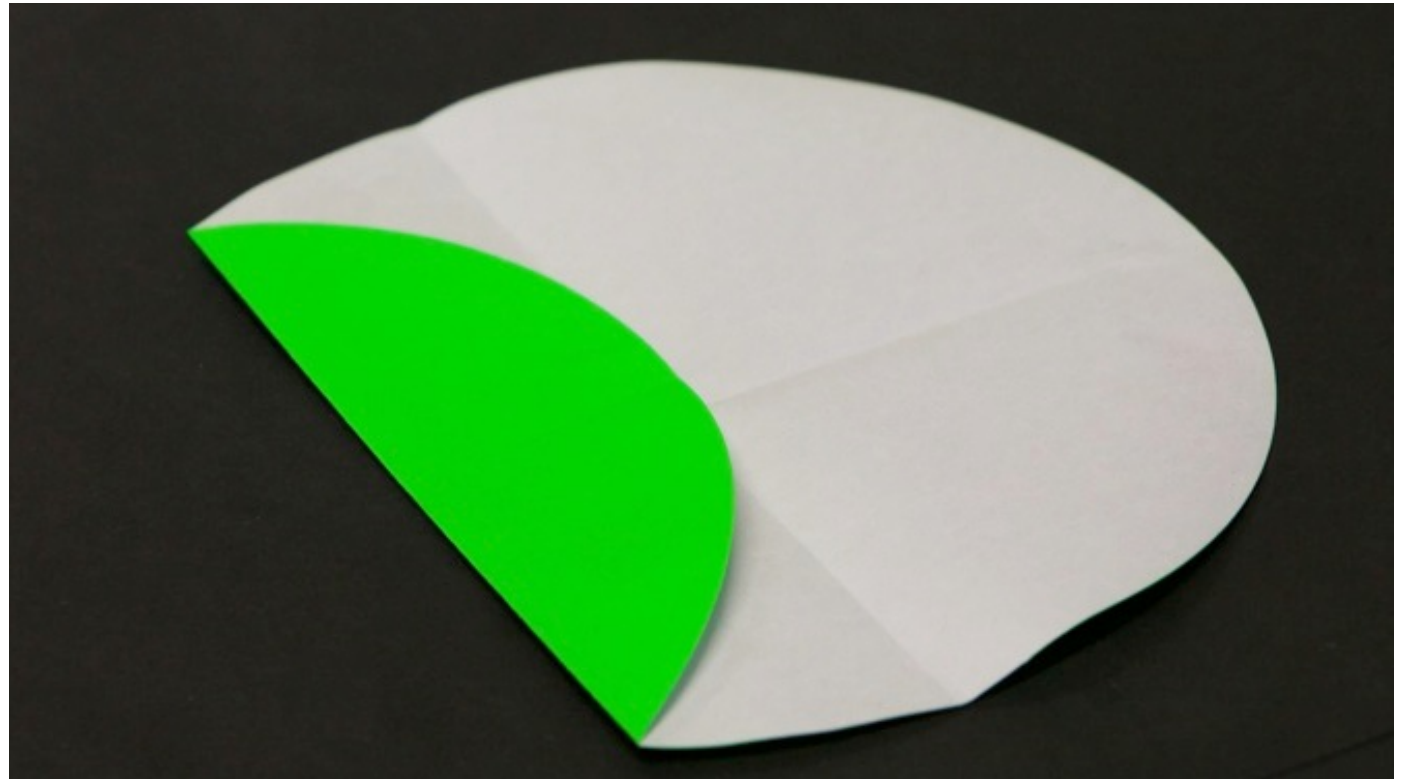
mark a dot in the
exact centre



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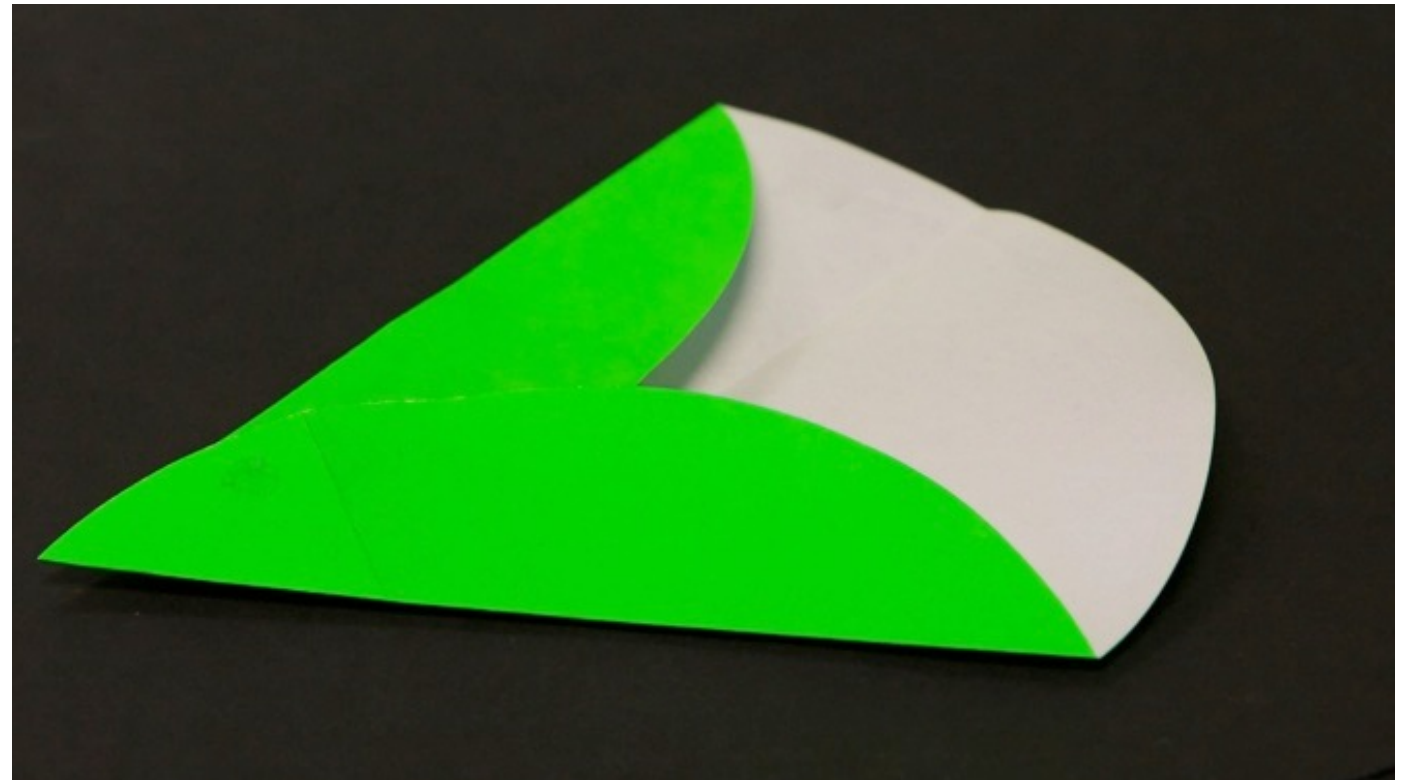
chord



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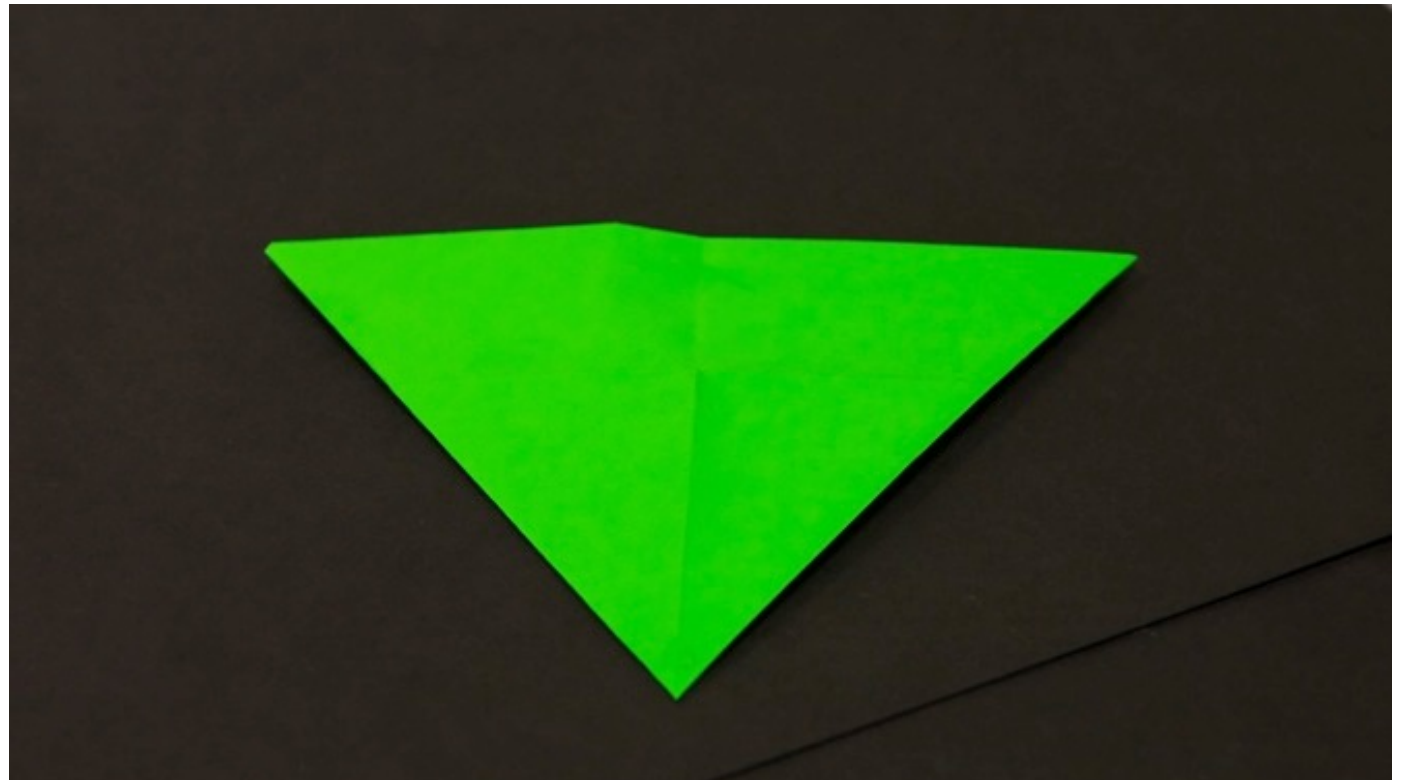
sector



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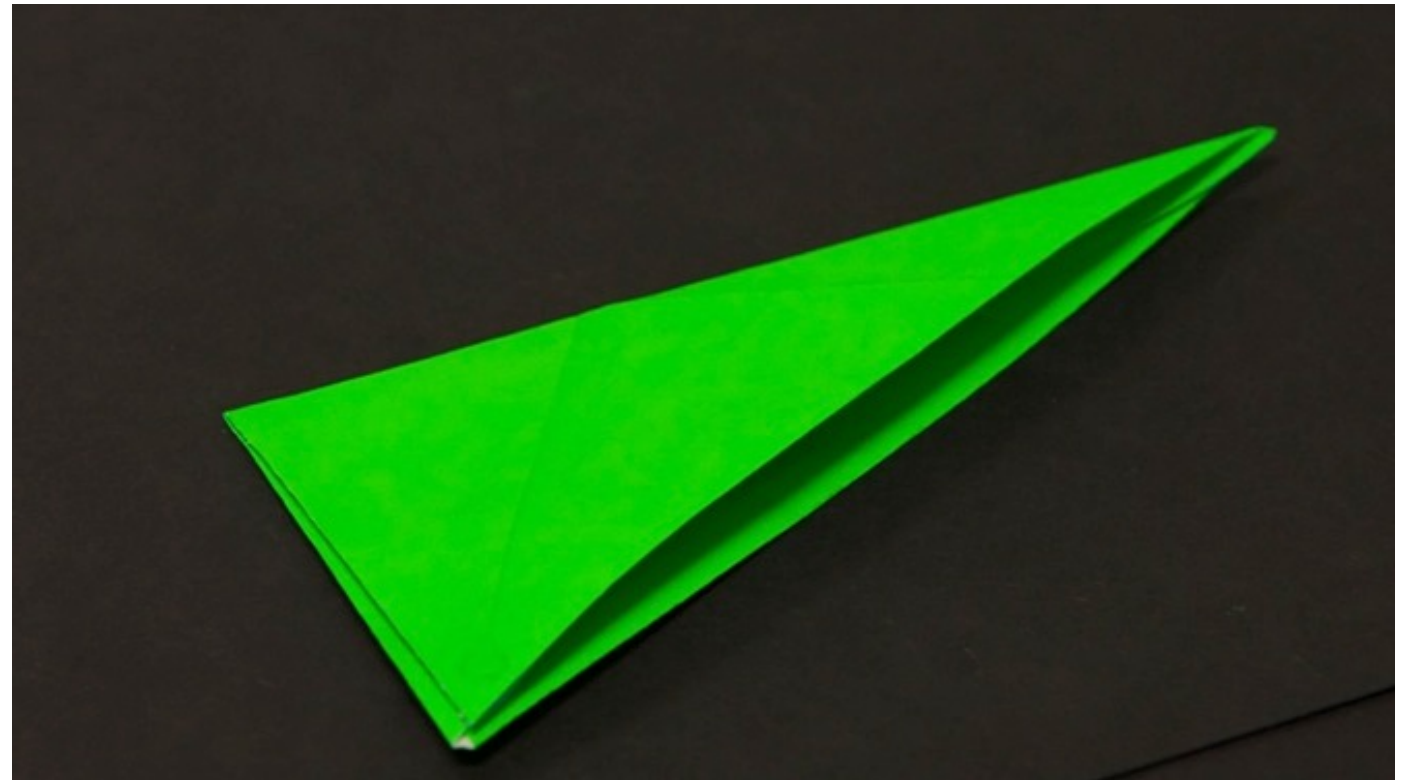
equilateral
triangle



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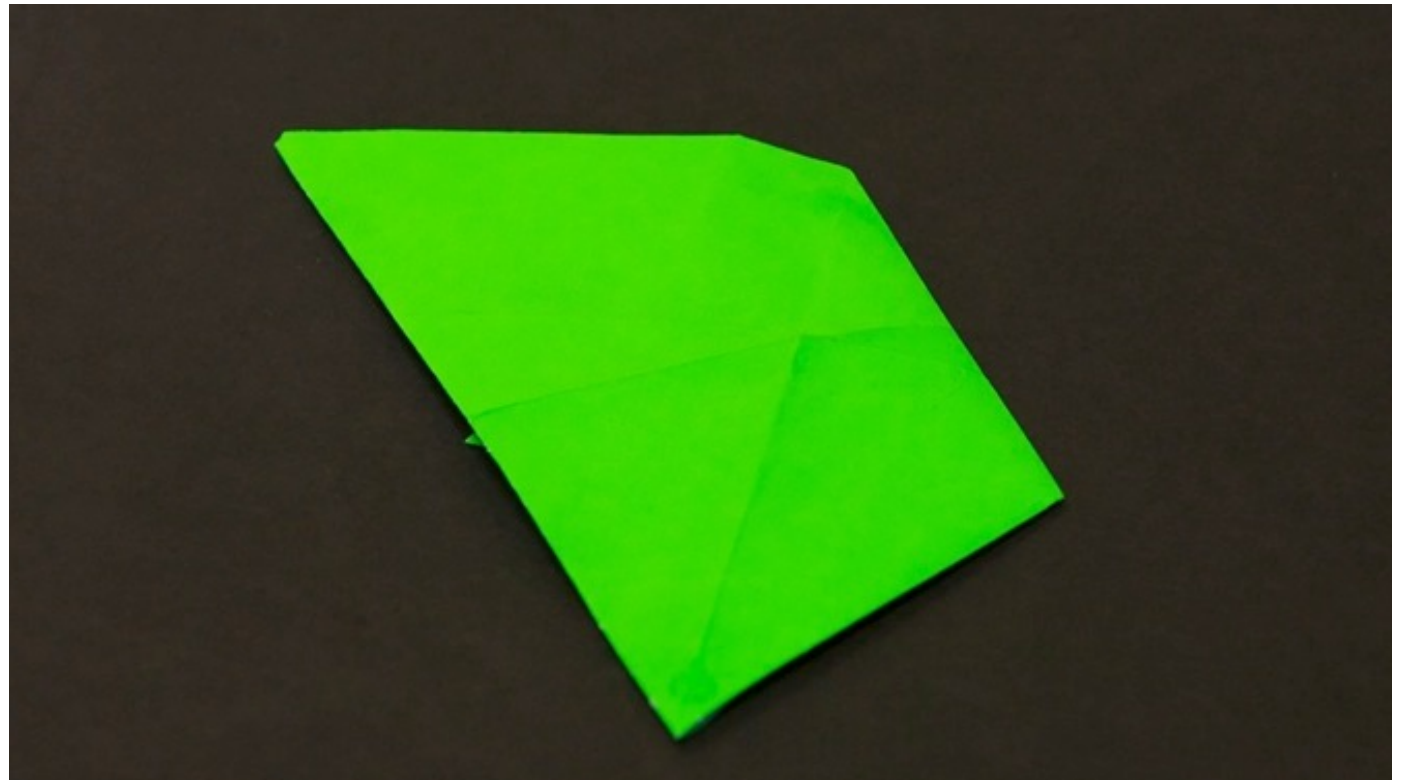
right-angled
triangle



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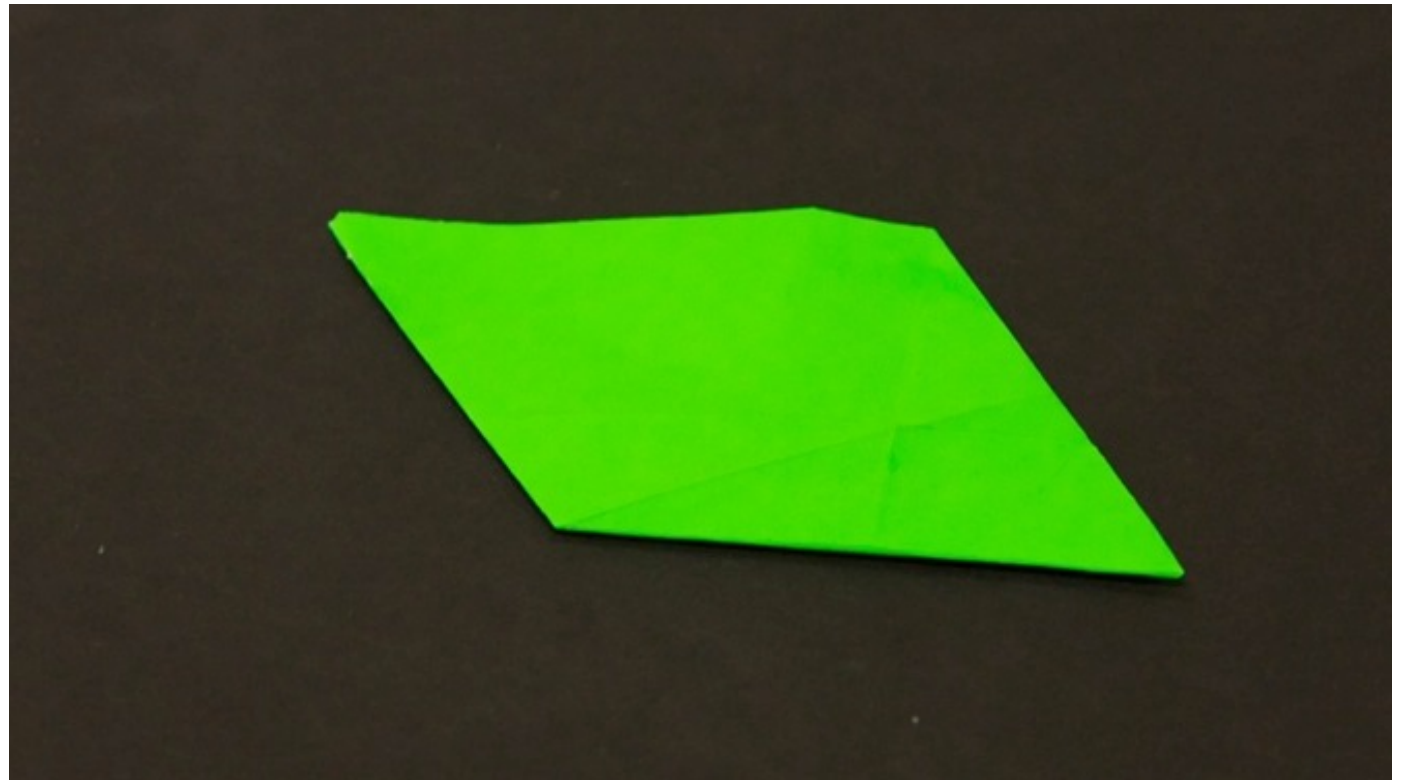
trapezium



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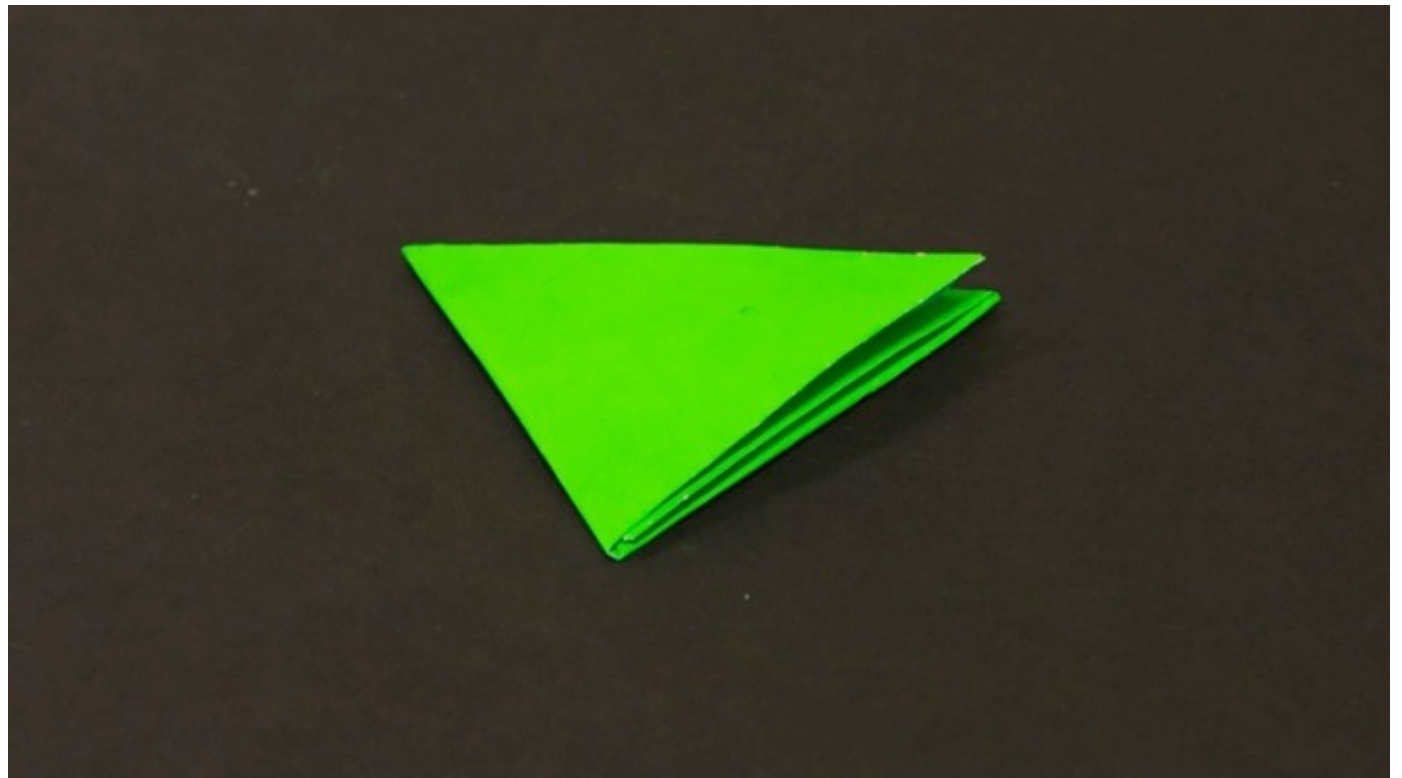
rhombus



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equilateral
triangle

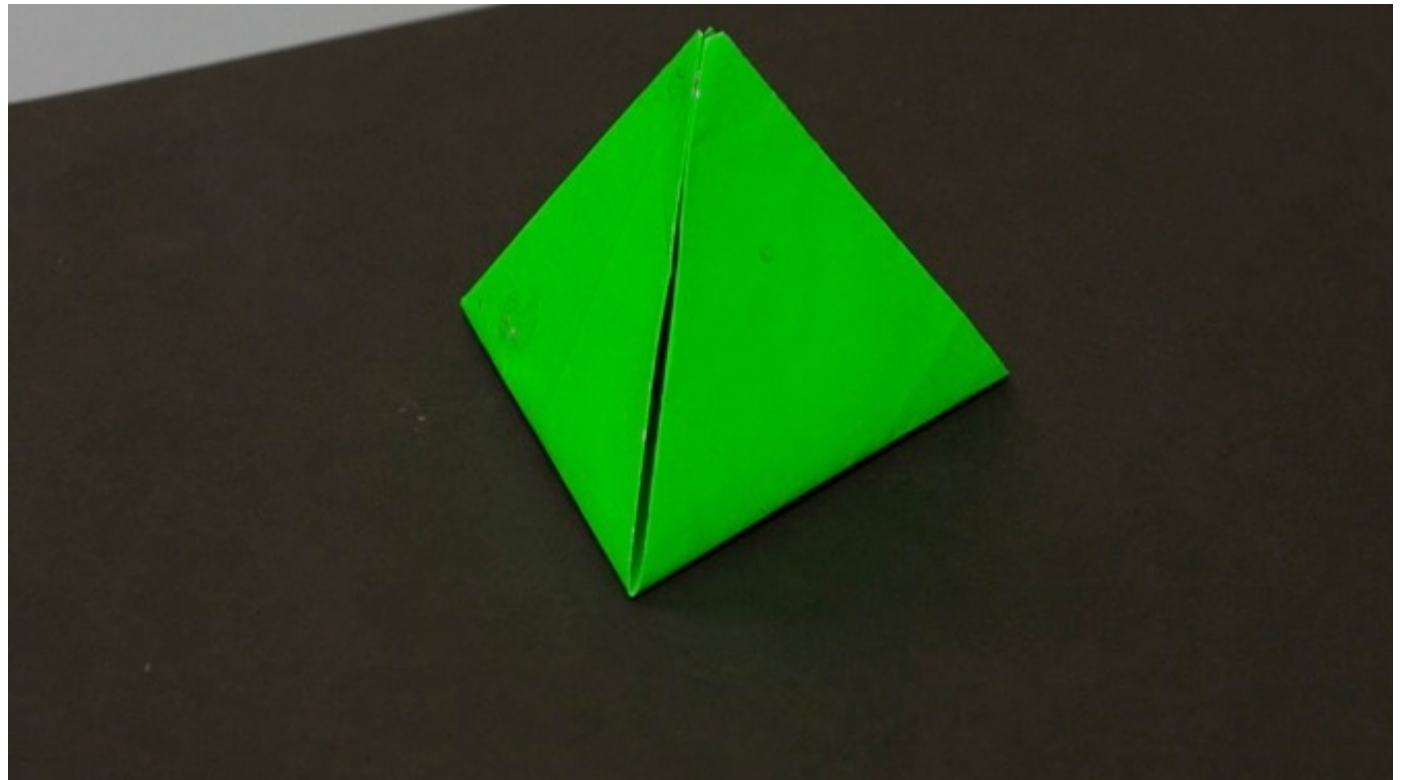


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triangular based
pyramid

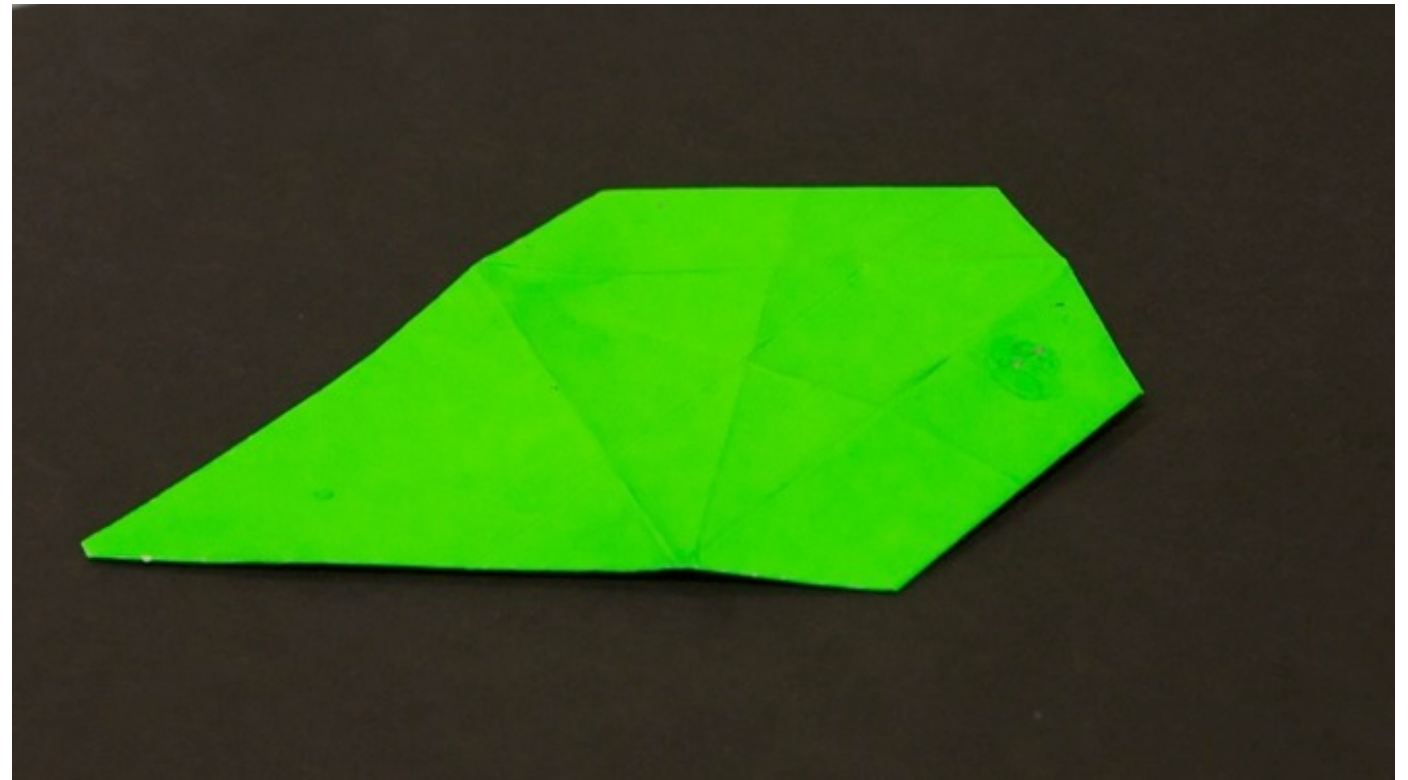
tetrahedron



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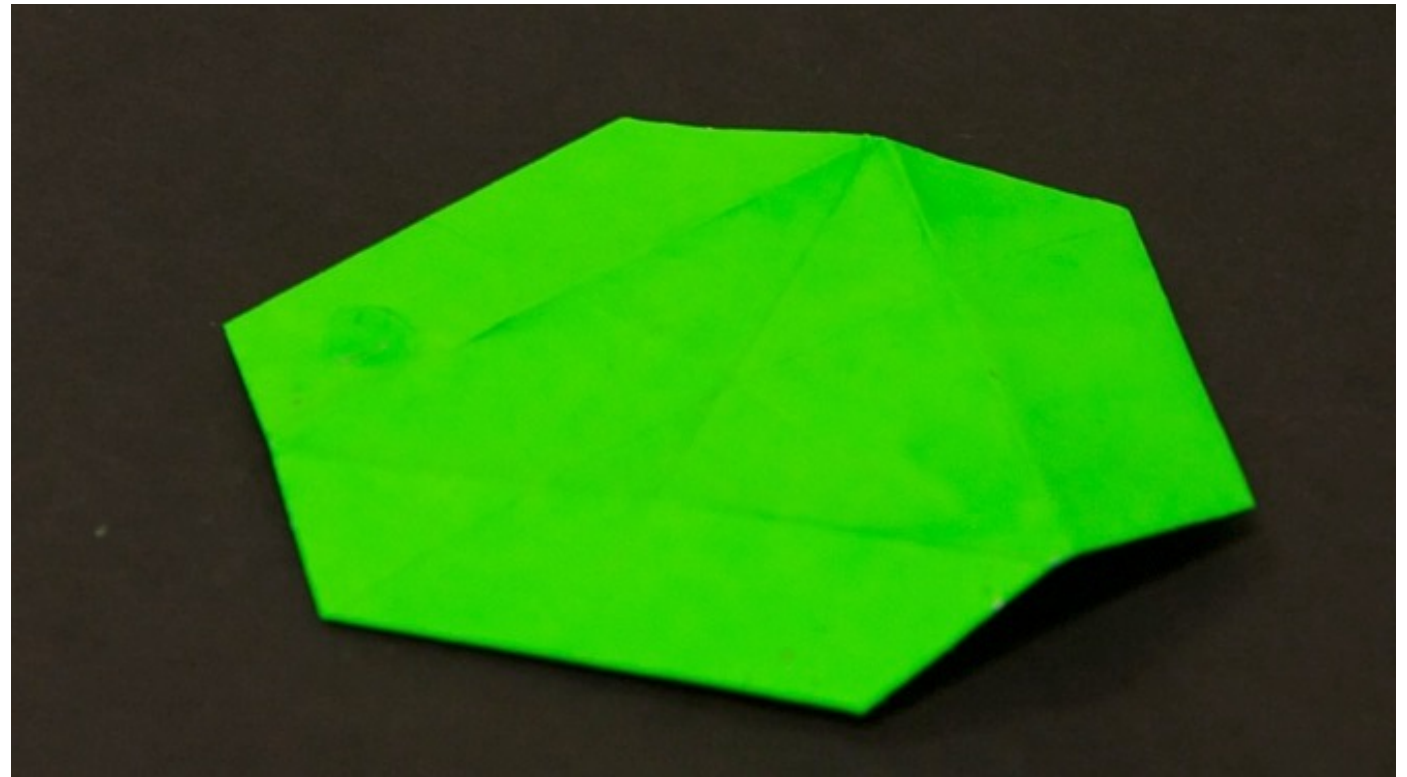
an irregular
pentagon



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hexagon



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truncated
tetrahedron



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1. create a trapezium but then fold back on crease

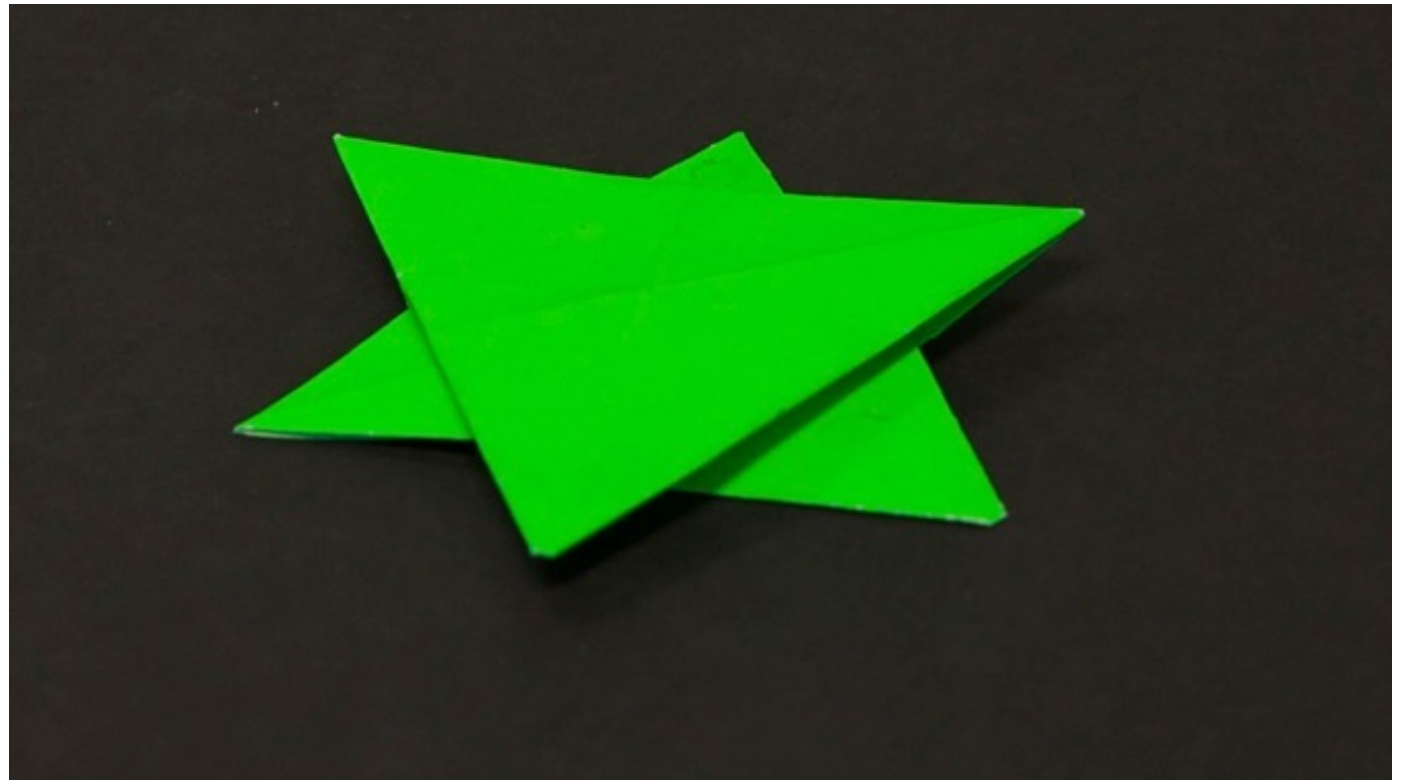
2. repeat with all corners



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a six pointed star



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Where is the
maths?

Take a few minutes
to write down
some of the
mathematical
properties
The Versatile Circle
will allow you to
share with your
students.

