



Ahoy, me hearties!



Out at sea, 'tis hard to find anything more useful than a good net.

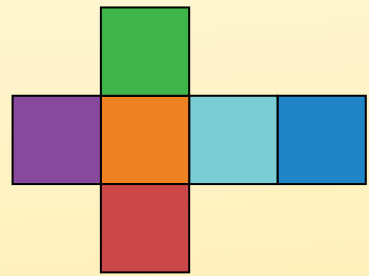


Today, we'll be makin' a different sort o' net.

In math, a *net* be a two-dimensional shape that can be folded into the surface of a three-dimensional solid.

Let's start with the most commonly recognized net.

What polyhedron can be made by foldin' the six squares o' this net?

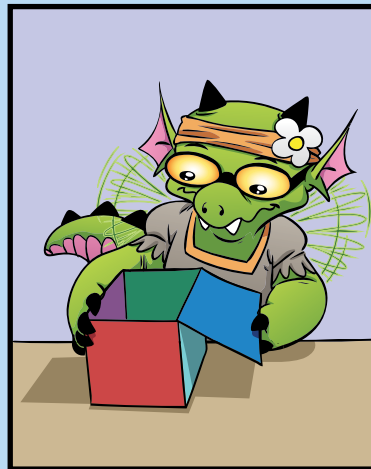
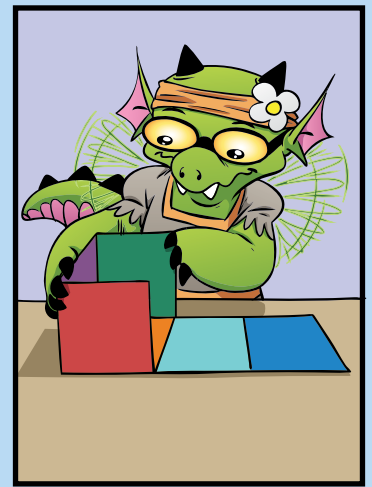


A polyhedron with six square faces is called a **cube**.

We can fold this net into a cube.



A **CUBE** IS A SPECIAL TYPE OF RECTANGULAR PRISM IN WHICH ALL SIX FACES ARE SQUARES.



Aye. The net of a cube be havin' six squares.

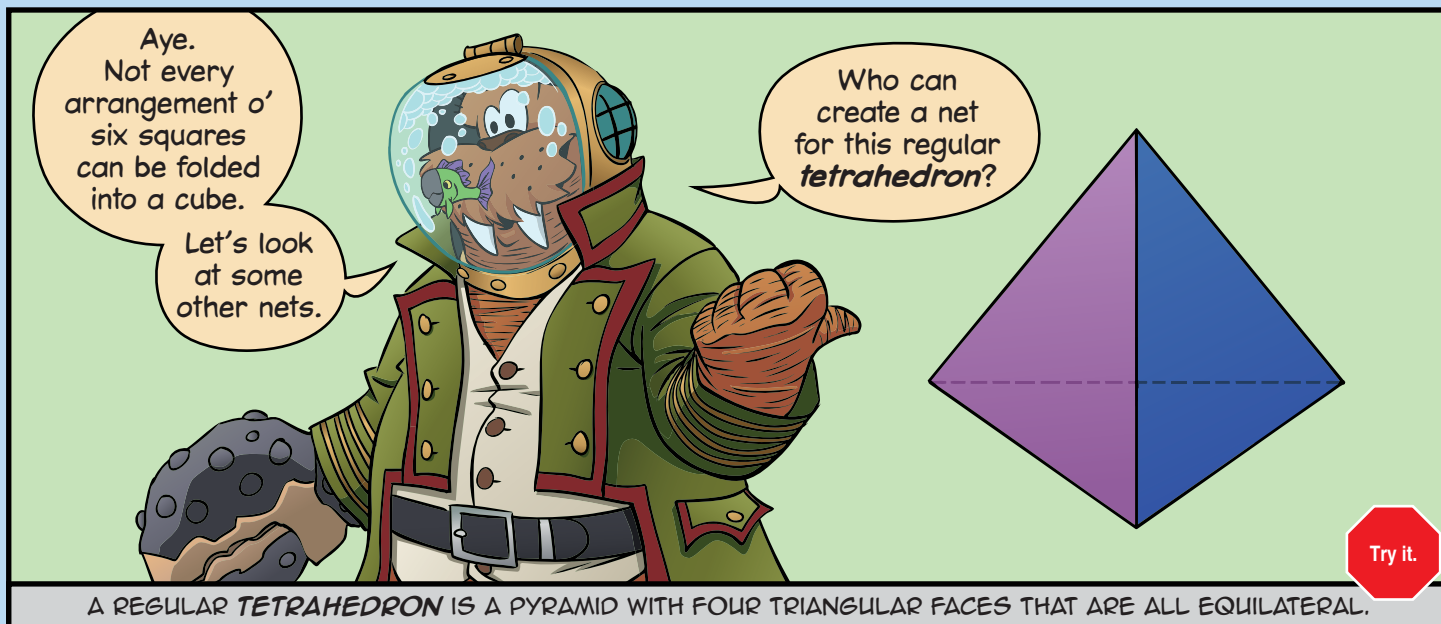
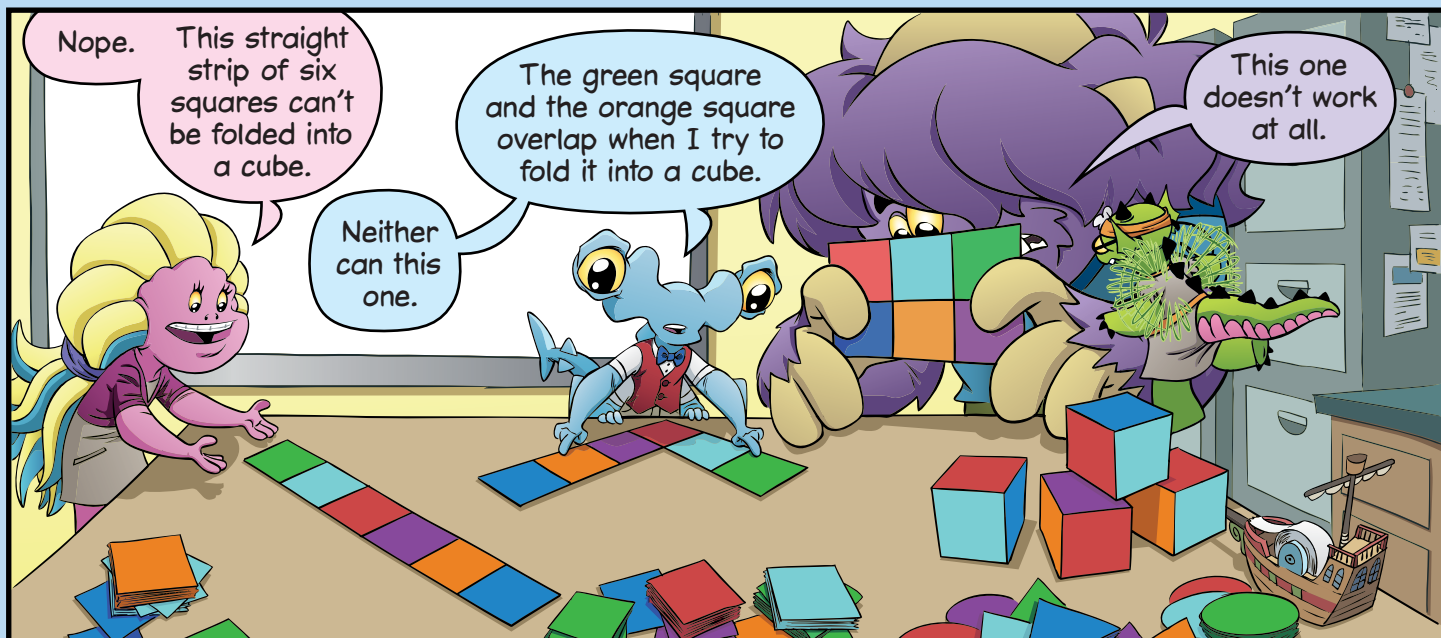
There be many other ways to join six squares to form the net of a cube.

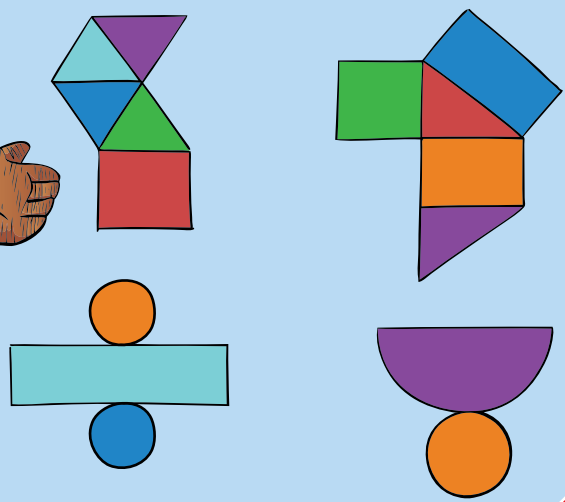
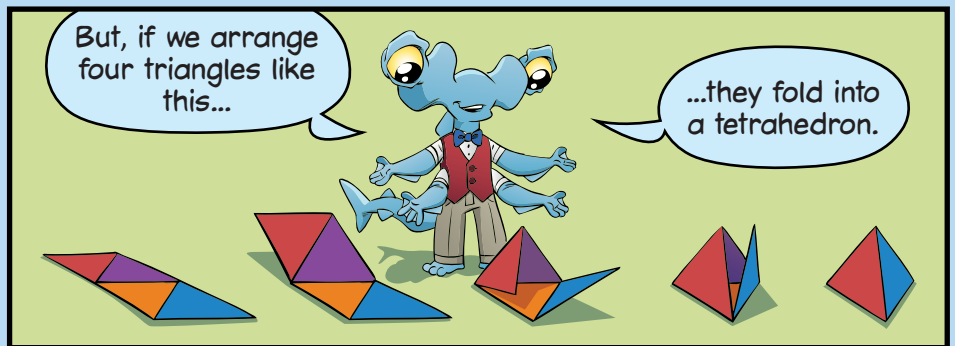
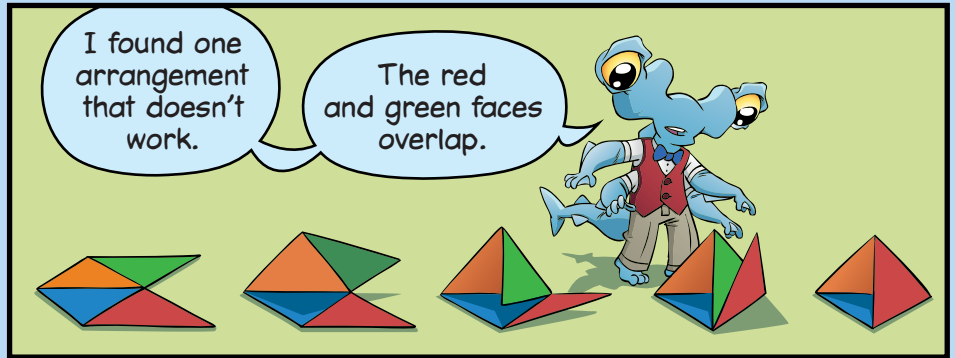
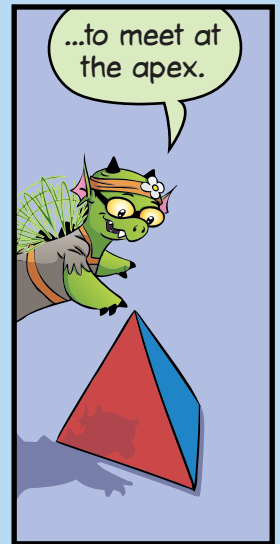
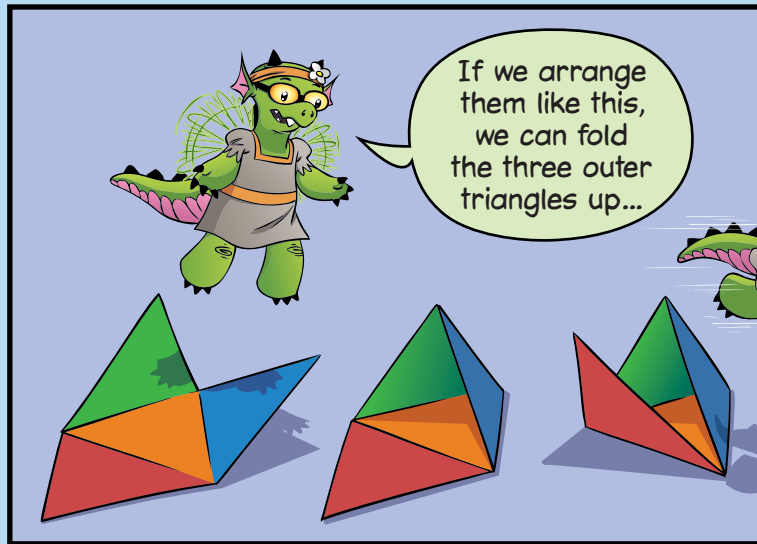
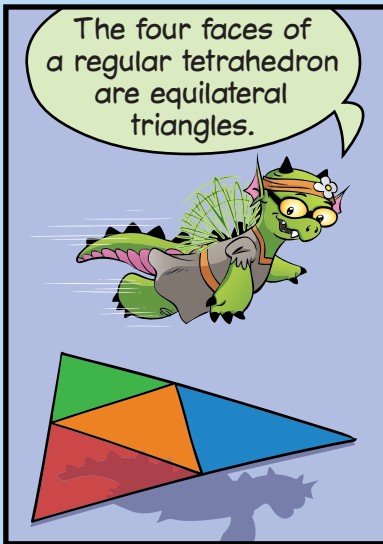
Which o' these four arrangements o' squares can be folded to make a cube?



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Which ones?





What solids are formed by folding these nets?