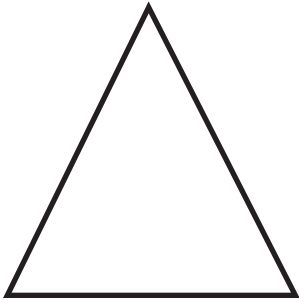


Name: _____

STRONG SHAPES

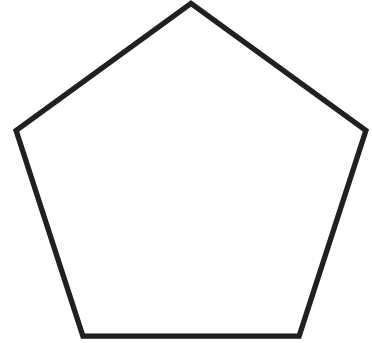
Using only the Lego Technic beams, build each shape and see which ones are the sturdiest.



Triangle



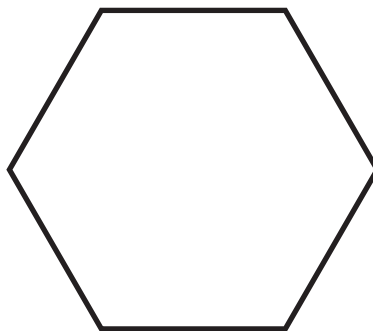
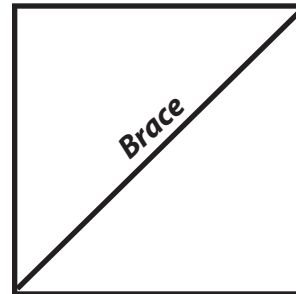
Square



Pentagon

Which shape did you find to be the sturdiest? _____

Now try to make the weak shapes more sturdy by **bracing** them. You can use another Technic beam to brace the structure. Usually when bracing is done correctly, a triangle will form inside the main structure. Here is one example to help you. Can you do the same for the pentagon?



Try to brace a hexagon. This is what a hexagon looks like; it is a 6 sided polygon. Brace it so it is sturdy when squeezed from all sides. Remember, try to make multiple triangles within the main shape.