

Data Collection Sheet

Collect Your Data

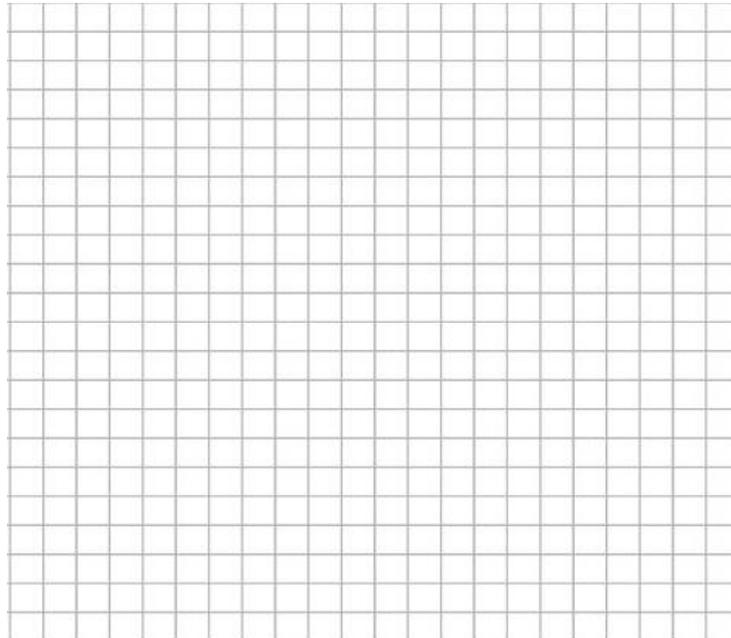
Polygon (# sides)	Sum of Interior Angles	Measure of Angle 1	Measure Angle 2	Deflection of Angle 1*	Deflection of Angle 2*
Triangle (3)					

***Tip for finding the deflection angle:** You have the initial measurements of the target angles. Once you apply load to your truss, the target angles change. *Calculate the change* between the initial target angle and the deformed angle. The change is called the deflection angle.

Load capacity: # of books the truss supported	First iteration =	Second iteration =
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Graph Your Data

- Graph the deflection in each angle vs. the number of sides in each polygon.



Name: _____ Date: _____ Class: _____

2. Graph the number of books your truss supported vs. the number of sides in each polygon.

