

The teacher will need to see all of your work. Check (x) off each one as you use it. Be sure to include the following:

- Pictures, charts, graphs, or t-tables that support your explanation
- A written explanation with detailed sentences
- The equation or number sentence
- The answer (Ask yourself: Is my answer reasonable? Why or why not?)
- The solution in more than one way or related to other situations

Teacher Use Only

Analytical Score:

Understanding N A P E

Strategy/Reasoning N A P E

Communication N A P E

Holistic Score N A P E

Name: _____ Grade: _____ Date: _____

Teacher: _____ School: _____

Bridge Building on the Rio Grande

Bridges are made of trusses. Examples of Warren Trusses are shown below.

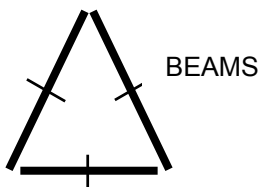
1 Truss	5 meters long
2 Trusses	10 meters long
3 Trusses	15 meters long

A new bridge is being built across the Rio Grande.

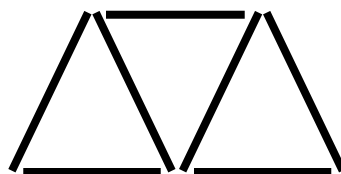
The Bridge will be 1 kilometer long. (Hint: 1 km = 1,000 meters)

Task Part 1: If the engineers build the bridge using Warren Trusses, how many trusses will need to be built?

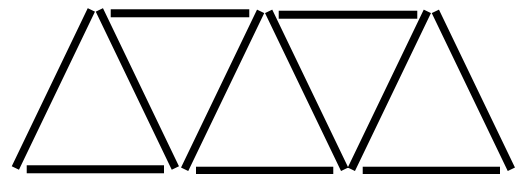
Task Part 2: How many beams will this new bridge require?



1 Truss – 5 meters long



2 Trusses – 10 meters long



3 Trusses – 15 meters long