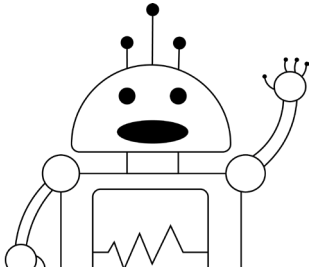


Date: _____

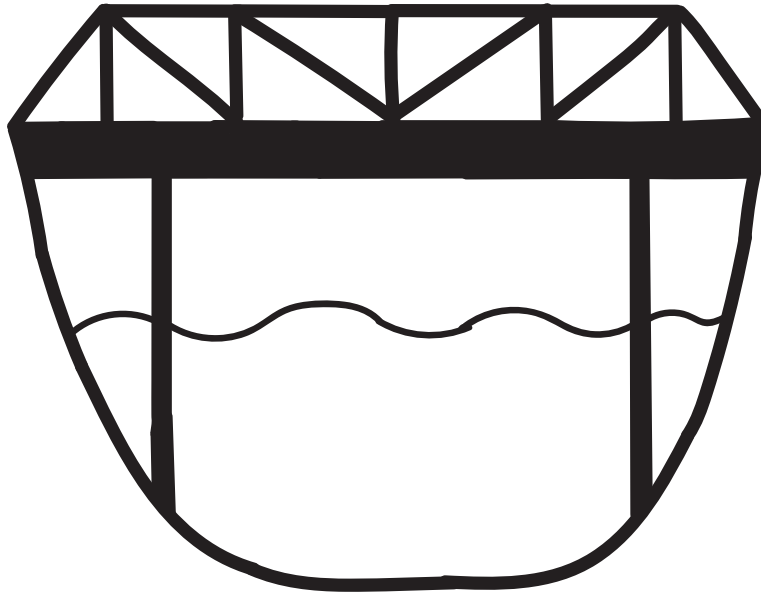
Name: _____

Structures: True or False?

This activity was created by Zoe.



I need your help to determine whether the statements below are true or false using boolean variables (computers interpret everything into 1's and 0's), where **True = 1** and **False = 0**. Circle your answer and answer the extension questions based on your 1 or 0 choice.



A twisting force that acts on structures is called torsion.

1

0

If **1**, then use arrows to label the direction the force may act on the bridge.

If **0**, then what is the proper name of the twisting force? _____

Most solid structures are made up of fastened parts.

1

0

If **1**, then provide an example of a solid structure: _____

If **0**, then correct the statement to read the definition of a solid structure:

Date: _____

Name: _____

Forces acting in opposite directions of each other results in a shear force.

1

0

If **1**, then label the direction the force may act on the bridge above.

If **0**, then what is the proper name? _____

A frame structure is hollow.

1

0

If **1**, then provide an example of a frame structure: _____

If **0**, then correct the statement to read the definition of a hollow structure:

A structure can only have one force exerted on it at a time.

1

0

If **1**, then explain why: _____

If **0**, then explain why: _____
