

Name:

Date:

Class:

Race to the Top! Post-Activity Quiz

1. Why is it important for engineers to use models? (2 points)

2. List two shapes that are used by engineers to build towers. (2 points)

A. _____

B. _____

3. Why are plans and sketches important in the engineering design process? (3 points)

4. What design worked best to reach the tallest height? Include the shapes used when stacking the Kapla blocks. (3 points)

5. List three factors engineers consider when building tall structures. (3 points)

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B. _____

C. _____

Circle the correct answer: (1 point each)

6. What is a member?

- a. A window or door in a structure
- b. A bolt or screw in a structure
- c. A beam or column of a structure

7. What does weight-bearing mean?

- a. A structure that is able to support itself without assistance from other structures or supports.
- b. A structure that is able to support additional weight besides the weight of its members.
- c. A structure that is able to support bears.

8. A structure that is able to support itself without assistance from other structures or supports is _____.

- a. weight-bearing
- b. free-standing
- c. free weight