**Race to the Top! Worksheet**

**Materials**

75 Kapla® blocks test weight measuring tape

**Design**

1. In the space below, draw a picture of the weight-bearing, free-standing tower you want to build. Label the horizontal members. Label the vertical members.

2. What shapes are you using in your design?

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3. Your tower will most-likely use repeating shapes for each level. From your design, how many blocks will you use per level? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Since you have only 75 blocks, how many levels can you make? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Redesign**

5. In the space below, draw a picture of your final design below. Label the horizontal and vertical members.

6. How many total blocks did you use in your design? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. What was your tower’s height in centimeters? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. How many blocks did you use per level? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Number of levels? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Did you make changes to your original design?

Explain why and how that affected your new tower.

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