**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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1. Your tower will most-likely use repeating shapes for each level.   
   From your design, how many blocks will you use per level? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Since you have only 75 blocks, how many levels can you make? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Redesign**

1. In the space below, draw a picture of your final design below.   
   Label the horizontal and vertical members.
2. How many total blocks did you use in your design? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What was your tower’s height in centimeters? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. How many blocks did you use per level? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Did you make changes to your original design?   
   Explain why and how that affected your new tower.

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