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?

_______________________________________________________________________

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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Race to the Top! Modeling Skyscrapers Activity—Race to the Top! Worksheet