

Name:

Date:

Class:

## 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

Name:

Date:

Class:

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.

---

---

---