

Grade 5 Reading Comprehension Challenge

Worksheet Set 006

Grade 5 · Reading Comprehension · Challenge

Name: _____ Date: _____

Read the passage carefully. Then answer all 8 questions using details from the text.

Designing a Strong Model Bridge

Leah's team received craft sticks, glue, string, and two cardboard supports.

Their bridge needed to span forty centimeters without touching the table below.

The first design used parallel beams joined by short cross pieces.

During testing, the center bent when the team added a fifth metal washer.

Leah suggested adding triangular braces because triangles resist changing shape.

The rebuilt bridge used the same amount of material arranged in a stronger pattern.

On the second test, the model held eleven washers before bending slightly.

The team concluded that material arrangement can matter as much as material quantity.

Questions

Return to the passage and write a short, text-based answer for each item.

1. How far did the bridge need to span?

2. What materials did Leah's team receive?

3. When did the bridge center bend?

4. What conclusion did the team reach?

5. What reinforcement did Leah suggest?

6. What joined the parallel beams?

7. How many washers did the rebuilt bridge hold?

8. How did the rebuilt bridge use its material?

Answer Key

Each answer below is supported by a sentence in the passage.

1. forty centimeters	2. craft sticks, glue, string, and two cardboard supports
3. fifth metal washer	4. material arrangement can matter as much as material quantity
5. triangular braces	6. short cross pieces
7. eleven washers	8. stronger pattern