Science and technology · Grade 5

Strong or weak structures

Read or look closely

A flat sheet across two books holds 2 counters before bending. An identical accordion-folded sheet holds 7. The books are the same distance apart.

Answers

1. Which sheet carries more counters?

The accordion-folded sheet.

2. How many more counters does it hold?

5 counters.

3. Think about how each sheet is set up. How are their shapes different?

The shape of the sheet.

4. Name one thing kept the same.

The kind of paper or the distance between the books.

5. Suggest a third shape and how to test it fairly.

Example: an arch using the same paper, books and counters.