Plan Fair Tests

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Read the investigation. Write the answer on the line.

READ THIS FIRST

A paper bridge test

A team built three bridges from one sheet of paper each, using different folds. Each bridge crossed the same gap between two desks. The team added washers one at a time until the bridge fell.

Flat bridge: 7 washers
Folded bridge: 16 washers
Tube bridge: 23 washers

1. What was measured in each trial?

_____

2. Name one thing that stayed the same in every trial.

_____

3. How many more washers was the biggest result than the smallest? Write the number.

_____

4. Add the results for the flat bridge and the tube bridge. Write the number.

_____

5. Which bridge gave the second-biggest result?

_____

6. The team uses a wider gap for the folded bridge than for the others. Is the test still fair? Write yes or no.

_____

7. What should the tester do to be more sure of the results? Write two or three words.

_____

8. A student says, "A flat bridge is the strongest because it has the most paper on top." Which bridge's result does not fit?

_____

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Answer Key - Grade 4 Science Worksheet - Challenge Me

Read the investigation. Write the answer on the line.

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Flat bridge: 7 washers
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1. What was measured in each trial?

washers

2. Name one thing that stayed the same in every trial.

paper

3. How many more washers was the biggest result than the smallest? Write the number.

16

4. Add the results for the flat bridge and the tube bridge. Write the number.

30

5. Which bridge gave the second-biggest result?

folded

6. The team uses a wider gap for the folded bridge than for the others. Is the test still fair? Write yes or no.

no

7. What should the tester do to be more sure of the results? Write two or three words.

repeat the test

8. A student says, "A flat bridge is the strongest because it has the most paper on top." Which bridge's result does not fit?

flat