Plan Fair Tests

Grade 4 Science Worksheet

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 changed from one trial to the next?

_____

2. Which bridge held the most weight?

_____

3. What was the result for the folded bridge? Write the number.

_____

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

_____

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

_____

6. Which bridge gave the second-biggest result?

_____

7. Which bridge held the least weight?

_____

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

_____

Scan to get this marked free. No screen time for your child.
Print it · do it in pencil · scan it · PencilGo picks the next sheet.

Plan Fair Tests

Answer Key - Grade 4 Science Worksheet

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 changed from one trial to the next?

fold

2. Which bridge held the most weight?

tube

3. What was the result for the folded bridge? Write the number.

16

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

paper

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

16

6. Which bridge gave the second-biggest result?

folded

7. Which bridge held the least weight?

flat

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

no