Plan Fair Tests

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Read the investigation. Write the answer on the line.

READ THIS FIRST

A parachute test

Omar made three parachutes from the same plastic bag. Only the size of the top was different. He dropped each one from the same window with the same washer tied on, and timed the fall.

Small top: 3 seconds
Medium top: 5 seconds
Large top: 8 seconds

1. What was measured in each trial?

_____

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

_____

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

_____

4. Add the results for the small parachute and the large parachute. Write the number.

_____

5. Which parachute gave the second-biggest result?

_____

6. Omar drops the large parachute from a higher window than 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. Omar says, "A bigger parachute always falls faster." Which parachute'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.

READ THIS FIRST

A parachute test

Omar made three parachutes from the same plastic bag. Only the size of the top was different. He dropped each one from the same window with the same washer tied on, and timed the fall.

Small top: 3 seconds
Medium top: 5 seconds
Large top: 8 seconds

1. What was measured in each trial?

time

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

washer

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

5

4. Add the results for the small parachute and the large parachute. Write the number.

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5. Which parachute gave the second-biggest result?

medium

6. Omar drops the large parachute from a higher window than 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. Omar says, "A bigger parachute always falls faster." Which parachute's result does not fit?

large