Plan Fair Tests

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Read the investigation. Write the answer on the line.

READ THIS FIRST

A toy car floor test

Nora rolled the same toy car down the same ramp onto three different floors. She let go of the car without a push and measured how far it rolled after the ramp.

Wood floor: 180 cm
Carpet floor: 60 cm
Tile floor: 240 cm

1. What was measured in each trial?

_____

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

_____

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

_____

4. Add the results for the wood floor and the tile floor. Write the number.

_____

5. Which floor gave the second-biggest result?

_____

6. Nora starts the car higher up the ramp for the tile floor 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. Nora says, "Carpet lets the car roll the farthest." Which floor'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 toy car floor test

Nora rolled the same toy car down the same ramp onto three different floors. She let go of the car without a push and measured how far it rolled after the ramp.

Wood floor: 180 cm
Carpet floor: 60 cm
Tile floor: 240 cm

1. What was measured in each trial?

distance

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

car

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

180

4. Add the results for the wood floor and the tile floor. Write the number.

420

5. Which floor gave the second-biggest result?

wood

6. Nora starts the car higher up the ramp for the tile floor 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. Nora says, "Carpet lets the car roll the farthest." Which floor's result does not fit?

carpet