Energy and Motion

Grade 4 Science Worksheet - Building Confidence

Name _____ Date _____

Read the investigation. Write the answer on the line.

READ THIS FIRST

A rolling ball test

Ana rolled a ball into a paper cup lying on its side. She rolled the ball slowly, then faster, then very fast, and measured how far the cup slid each time.

Slow roll: 10 cm
Fast roll: 35 cm
Very fast roll: 70 cm

1. What did the tester change to give the ball different amounts of energy of motion?

_____

2. Which roll gave the ball the most energy of motion?

_____

3. Which roll gave the ball the least energy of motion?

_____

4. Which gives the ball more energy of motion: the slow roll or the fast roll? Write the word.

_____

5. A faster ball hits the paper cup. Will the cup slide farther or not as far? Write farther or not as far.

_____

6. When the ball hits the cup, some of its energy of motion moves to the _____ . Write the word.

7. Which result shows the most energy of motion passed to the cup? Write the number.

_____

8. The faster an object moves, the _____ energy of motion it has. Write more or less.

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Answer Key - Grade 4 Science Worksheet - Building Confidence

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Ana rolled a ball into a paper cup lying on its side. She rolled the ball slowly, then faster, then very fast, and measured how far the cup slid each time.

Slow roll: 10 cm

Fast roll: 35 cm

Very fast roll: 70 cm

1. What did the tester change to give the ball different amounts of energy of motion?

   speed

2. Which roll gave the ball the most energy of motion?

   very fast

3. Which roll gave the ball the least energy of motion?

   slow

4. Which gives the ball more energy of motion: the slow roll or the fast roll? Write the word.

   fast

5. A faster ball hits the paper cup. Will the cup slide farther or not as far? Write farther or not as far.

   farther

6. When the ball hits the cup, some of its energy of motion moves to the **cup** . Write the word.

7. Which result shows the most energy of motion passed to the cup? Write the number.

   70

8. The faster an object moves, the **more** energy of motion it has. Write more or less.