Energy and Motion

Grade 4 Science Worksheet

Name _____ Date _____

Read the investigation. Write the answer on the line.

READ THIS FIRST

A skateboard test

A class pushed a skateboard along a hallway at three speeds so that it hit a stack of cardboard boxes. They timed each speed with a stopwatch and measured how far the boxes were pushed.

Slow run: 12 cm

Medium run: 40 cm

Fast run: 95 cm

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

_____

2. Which run gave the skateboard the most energy of motion?

_____

3. Which gives the skateboard more energy of motion: the slow run or the medium run? Write the word.

_____

4. A faster skateboard hits the stack of boxes. Will the boxes be pushed farther or not as far? Write farther or not as far.

_____

5. Which result shows the most energy of motion passed to the boxes? Write the number.

_____

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

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

8. The tester gives the skateboard even more speed than in the fastest trial. Will the result be more than 95 cm or less than 95 cm? Write more or less.

_____

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Answer Key - Grade 4 Science Worksheet

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Medium run: 40 cm
Fast run: 95 cm

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

   speed

2. Which run gave the skateboard the most energy of motion?

   fast

3. Which gives the skateboard more energy of motion: the slow run or the medium run? Write the word.

   medium

4. A faster skateboard hits the stack of boxes. Will the boxes be pushed farther or not as far? Write farther or not as far.

   farther

5. Which result shows the most energy of motion passed to the boxes? Write the number.

   95

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

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

8. The tester gives the skateboard even more speed than in the fastest trial. Will the result be more than 95 cm or less than 95 cm? Write more or less.

   more