



Force & Motion

Name: _____

Date: _____

Grade: Grade 2

Part A: Multiple Choice

Circle the best answer for each question.

1. Maya rolled a toy car down a ramp onto four surfaces. Carpet: 20 cm. Grass mat: 30 cm. Wood floor: 90 cm. Tile: 110 cm. Which surface let the car go the farthest?

- A) Carpet
- B) Grass mat
- C) Wood floor
- D) Tile

2. In the same test, which surface slowed the car the most?

- A) Tile
- B) Wood floor
- C) Grass mat
- D) Carpet

3. Leo tested a toy car down the same ramp three times on a tile floor and got 108, 110, and 112 cm. What is the BEST conclusion?

- A) The results are almost the same, showing the test is fair
- B) Tile makes cars slower than carpet
- C) The ramp was broken
- D) Friction made the car stop right away

4. Which change would MOST LIKELY make the toy car roll even farther on tile?

- A) Putting sand on the tile
- B) Raising the ramp higher
- C) Adding a rug on the tile
- D) Pushing less from the top

Part B: Fill in the Blank

Write the correct answer on each line.

1. A smooth surface like tile has less _____ than a rough surface like carpet.
2. When friction is lower, a rolling car travels a _____ distance.
3. Running an experiment three times and getting close numbers makes the results more _____.
4. To test surfaces fairly, everything else in the experiment must be kept the _____.
5. Raising the ramp higher gives the car more starting _____.

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Part B: Fill in the Blank

Write the correct answer on each line.

1. A smooth surface like tile has less friction than a rough surface like carpet.
2. When friction is lower, a rolling car travels a greater distance.
3. Running an experiment three times and getting close numbers makes the results more reliable.
4. To test surfaces fairly, everything else in the experiment must be kept the same.
5. Raising the ramp higher gives the car more starting speed.