

Gravity and friction

Grade 3 Science Worksheet

These kids are rolling a toy car down a ramp. They want to see how far it will roll on different surfaces. They recorded their data in a chart.

| Surface | Distance |
|---------|----------|
| wood | 4 feet |
| carpet | 3 feet |
| tile | 4.5 feet |
| grass | 2.5 feet |



Answer the questions.

What force made the car roll down the ramp?

Circle one: friction gravity

What force made the car slow down and stop rolling?

Circle one: friction gravity

Which surface had the most friction? _____

How do you know? _____

Which surface had the least friction? _____

How do you know? _____

If you wanted the car to roll a long way, would you choose carpet or wood? _____

Why? _____

Answers

| Surface | Distance |
|---------|----------|
| wood | 4 feet |
| carpet | 3 feet |
| tile | 4.5 feet |
| grass | 2.5 feet |



Answer the questions.

What force made the car roll down the ramp?

Circle one: friction **gravity**

What force made the car slow down and stop rolling?

Circle one: **friction** gravity

Which surface had the most friction? carpet

How do you know? The car rolled the shortest distance.

Which surface had the least friction? tile

How do you know? The car rolled the longest distance.

If you wanted the car to roll a long way, would you choose carpet or wood? wood

Why? I know it has less friction because the car rolled farther.