Force and Motion 1.1 CRAM Practice Questions

1.Jeremiah pushes a toy car across two different surfaces. He pushes the car across sandpaper and aluminum foil, He notices it is hardest to push the toy car across the sandpaper. Which is the MOST likely reason it is hardest to push the car across the sandpaper?

A. The car has more mass when it is on the carpeted floor.

B. The carpet creates more friction than the other surfaces.

C. The car is affected most by gravity on the carpeted floor.

D. The carpet pushes more against the car than the other surfaces.

2. What kind of force do brakes use to stop a moving bicycle?

A. gravity

B. friction

C. magnetic

D. push

3.A student uses a rubber band to launch the four objects shown in the table.

Object Mass

|  |  |
| --- | --- |
| piece of notebook paper | 2 grams |
| small bouncy ball | 10 grams |
| cotton ball | 0.5 gram |
| pencil | 3 grams |

If the student pulls the rubber band back the same amount each time, which object will most likely move the slowest when launched?

A. cotton ball

B. a piece of notebook paper

C. small bouncy ball

D. pencil

4. A marker falls off of the table. What moves the marker towards the floor?

A. mass

B. friction

C. gravity

D. speed

5. Four cars are at the starting line of a race. Which car will require the most force to start moving?

A. car with mass of 1600 kilograms

B. car with mass of 1100 kilograms

C. car with mass of 3000 kilograms

D. car with mass of 1300 kilograms