Forces and Motion

Grade 3 Science Worksheet

Name _____ Date _____

Circle the answer.

1. Which change will make a book stop sooner when it slides across a table?

   sliding it on smooth glass

   waxing the table smooth

   putting a rough towel on the table

   pushing the book harder

2. Two children ride a seesaw. When one end goes up, what does the other end do?

   it stays still it goes down it spins around it goes up too

3. A marble rolls back and forth in a bowl. Each time it goes a little less high up the side. What will happen if no one pushes it?

   it will stop near the top

   it will roll higher each time

   it will roll out of the bowl

   it will stop at the bottom

4. Team A pulls a rope with 50 units of force. Team B pulls with 70 units. What happens?

   the rope moves toward Team A

   the rope stays still

   the rope moves toward Team B

   the rope breaks in the middle

5. Which is an example of balanced forces?

   a wagon speeding up when pulled

   a book resting on a table

   a ball rolling faster down a hill

   a kicked ball changing direction

6. A ball is dropped from 1 meter and from 2 meters. Which one is moving faster when it lands?

the ball from 2 meters neither, they float down the ball from 1 meter both at the same speed

7. A wagon is pulled forward hard. Friction on the wheels is small. What happens to the wagon?

it moves backward it stays still it speeds up it slows down

8. A soccer player stops a rolling ball with her foot. What did her foot do?

- took gravity away from the ball
- made the ball lighter
- pushed against the ball's motion
- added speed to the ball

9. A child on a swing is pushed once and swings back and forth. Which pattern helps predict where the swing will be?

- it stops after one swing
- it goes to one side, then the other, over and over
- it goes higher with every swing
- it swings in one direction only

10. A box is pushed with 10 units of force from the left and 10 units from the right. What happens?

- it moves up, because the forces meet
- it stays still, because the forces are balanced
- it moves right, because the right push wins
- it moves left, because the left push wins

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Answer Key - Grade 3 Science Worksheet

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