Forces and Motion

Grade 3 Science Worksheet

Name _____ Date _____

Circle the answer.

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

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

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

   pushed against the ball's motion

   added speed to the ball

   made the ball lighter

   took gravity away from the ball

3. 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

4. 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 moves left, because the left push wins

   it stays still, because the forces are balanced

   it moves right, because the right push wins

5. A box is pushed with 15 units from the left and 5 units from the right. Which way does it move?

   it stays still to the right to the left it spins in place

6. A ball rolls across a floor and slowly stops. Why?

friction from the floor slows it

air pushes it to the side

gravity pushes it backward

the ball runs out of push inside it

7. A pendulum takes 2 seconds to swing over and back. How long will 3 swings over and back take?

6 seconds 2 seconds 3 seconds 5 seconds

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

pushing the book harder

putting a rough towel on the table

sliding it on smooth glass

waxing the table smooth

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

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

10. 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 roll higher each time

it will stop at the bottom

it will stop near the top

it will roll out of the bowl

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Answer Key - Grade 3 Science Worksheet

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