Forces and Motion

Grade 3 Science Worksheet

Name _____ Date _____

Circle the answer.

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

   it stays still, because the forces are balanced

   it moves up, because the forces meet

   it moves left, because the left push wins

   it moves right, because the right push wins

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

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

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

   gravity pushes it backward

   air pushes it to the side

   the ball runs out of push inside it

   friction from the floor slows it

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

   5 seconds 6 seconds 2 seconds 3 seconds

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

   waxing the table smooth

   pushing the book harder

   putting a rough towel on the table

   sliding it on smooth glass

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

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

7. 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 near the top
- it will stop at the bottom
- it will roll out of the bowl

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

- the rope breaks in the middle
- the rope moves toward Team A
- the rope stays still
- the rope moves toward Team B

9. Which is an example of balanced forces?

- a ball rolling faster down a hill
- a wagon speeding up when pulled
- a kicked ball changing direction
- a book resting on a table

10. 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

Scan to get this marked free. No screen time for your child.
Print it · do it in pencil · scan it · PencilGo picks the next sheet.

Forces and Motion

Answer Key - Grade 3 Science Worksheet

Circle the answer.

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

   it stays still, because the forces are balanced

   it moves up, because the forces meet

   it moves left, because the left push wins

   it moves right, because the right push wins

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

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

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

   gravity pushes it backward

   air pushes it to the side

   the ball runs out of push inside it

   friction from the floor slows it

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

   5 seconds | 6 seconds | 2 seconds | 3 seconds

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

   waxing the table smooth

   pushing the book harder

   putting a rough towel on the table

   sliding it on smooth glass

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

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

7. 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 near the top

it will stop at the bottom

it will roll out of the bowl

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

the rope breaks in the middle

the rope moves toward Team A

the rope stays still

the rope moves toward Team B

9. Which is an example of balanced forces?

a ball rolling faster down a hill

a wagon speeding up when pulled

a kicked ball changing direction

a book resting on a table

10. 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