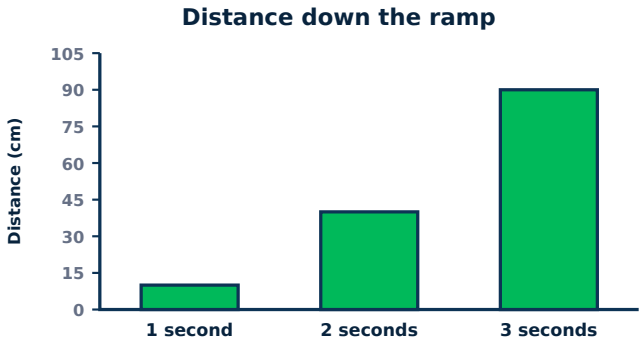
Forces and Motion

Grade 3 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. A ball rolls down a ramp. Use the graph of how far it has gone after each second. What does the pattern show?



the ball slows down
the ball stops after 2 seconds
the ball moves at the same speed
the ball speeds up as it rolls down

2. A sled slides down a snowy hill onto flat ground. On which surface would it stop soonest?
it would stop the same on each
a patch of sand
packed snow
smooth ice

3. A book sits on a table. Gravity pulls it down. Why doesn't it fall?
the table pushes up with an equal force
air holds the book up
gravity stops working on tables
the book has no weight on a table

4. Team A and Team B each pull a rope with 60 units of force. A third child joins Team A and adds 10 units. What happens?
the forces stay balanced
the rope moves toward Team B
the rope stays still
the rope moves toward Team A

5. A toy car rolls 50 cm on carpet and 200 cm on tile with the same push. What is the best explanation?
tile has more friction than carpet
gravity is stronger on carpet
carpet has more friction than tile
the car is heavier on carpet

6. A student pushes a box with 10 units of force, and friction pushes back with 10 units. She wants the box to move. What should she do?
   push with exactly 10 units
   push from both sides at once
   push with less than 10 units
   push with more than 10 units

7. A ball rolls back and forth in a bowl. It reaches 10 cm, then 8 cm, then 6 cm, then 4 cm up the side. Predict the next height.
   6 cm 10 cm 2 cm 4 cm

8. A kite stays still high in the sky. The wind pushes it and the string pulls it. What does this tell you?
   the forces on the kite are balanced
   only the wind is pushing the kite
   gravity has stopped pulling the kite
   the string pulls harder than the wind

9. A hockey puck slides a long way on ice but still slows down a little. Why?
   ice has no friction at all
   gravity pushes it backward
   there is a small amount of friction
   the puck runs out of force

10. Two equal pushes act on a box from opposite sides. Then one push stops. What happens?
   the box moves the way the other push points
   the box moves toward the push that stopped
   the box stays still
   the box moves straight up

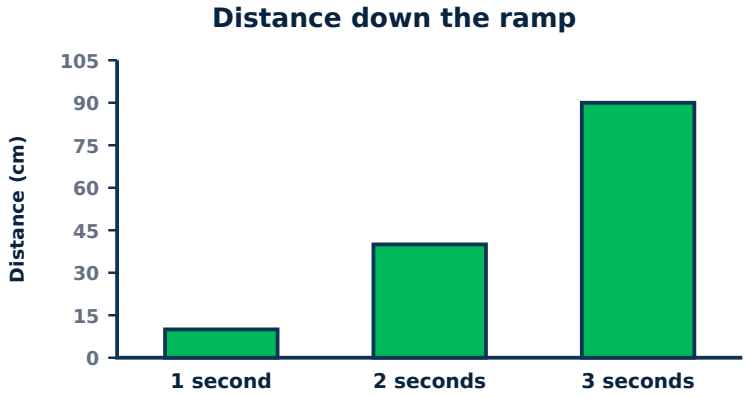
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Answer Key - Grade 3 Science Worksheet - Challenge Me

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