Weathering and Erosion

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

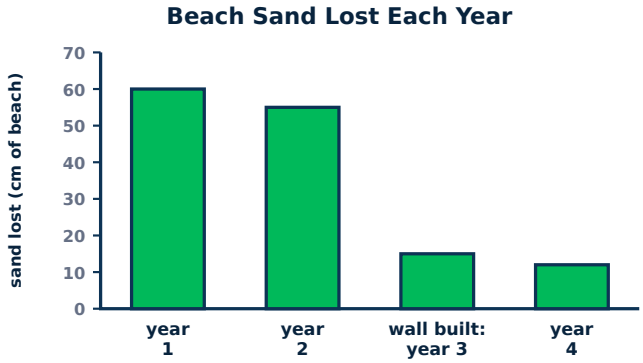
Circle the answer.

1. Trial 1: water poured on bare soil carried 50 g away. Trial 2: same water on soil with straw on top carried 15 g. How much less soil was lost with straw?
   50 g 35 g 15 g 65 g

2. Freezing water in a crack widens it. Which place would have the most of this weathering?
   a place where it freezes at night and thaws by day
   a place that stays frozen all year
   a warm tropical beach
   a hot desert that never freezes

3. A town must stop a hillside road from washing away. Plan A: plant shrubs (cheap, takes 2 years). Plan B: a stone wall (costly, works now). Storms come next month. Which is best now?
   neither plan slows erosion
   Plan A, because it works this month
   Plan A, because it is cheaper
   Plan B, because the road needs protection right away

4. Look at the graph of a beach that was measured each year. What is the best explanation?



   the wall stopped all sand from washing away
   after the rock wall was built, less sand washed away each year
   the beach lost the same sand every year
   the rock wall made erosion faster

5. A student says, "The Grand Canyon formed in a single big flood." Which evidence argues against this?
   the canyon is very wide and very deep
   rivers today wear rock away only a little each year
   it rarely rains in the canyon today
   the canyon walls show many rock layers

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Answer Key - Grade 4 Science Worksheet - Challenge Me

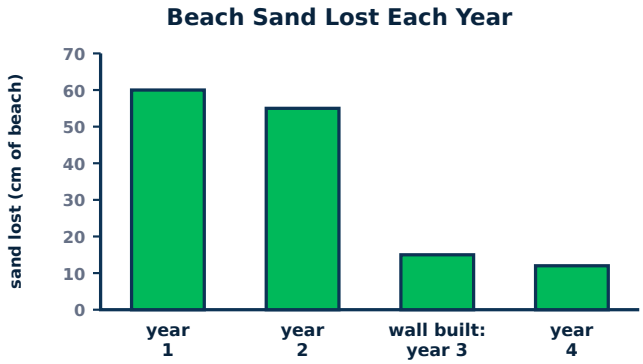
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