Environment and Traits

Grade 3 Science Worksheet

Name _____ Date _____

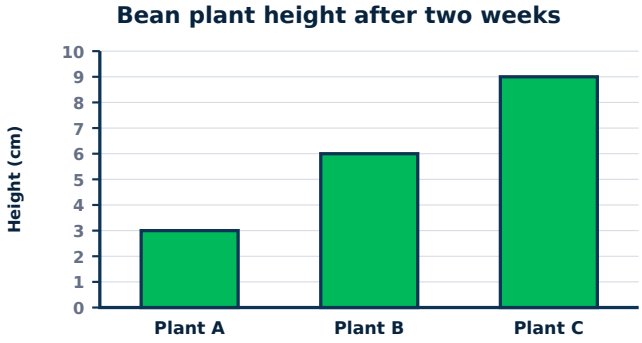
Circle the answer.

1. Sunflowers planted close together grow taller and thinner than the same kind planted far apart. All get the same water. What caused the difference?
   competing with neighbors for sunlight
   being a different variety
   getting less water than the others
   inheriting a thin shape

2. A tree's rings are wide in wet years and narrow in dry years. What does a narrow ring tell you about that year?
   the year was very wet
   the tree grew faster that year
   the year was dry
   the tree was very young

3. Two calves from the same herd grow to different sizes. One grazes in a large pasture with plenty of grass. The other stays in a small pen with less food. What caused the size difference?
   being born in different years
   the breed of each calf's parents
   the amount of food and space
   the color of each calf's coat

4. Plant A got 1 hour of sun a day, plant B got 3 hours, and plant C got 6 hours. Use the graph. How much taller is plant C than plant A?



   3 cm 6 cm 12 cm 9 cm

5. Puppies in a litter have the same fur pattern, but one is heavier because it eats more. Which trait was most affected by the environment?
   the puppy's ear shape the puppy's weight the puppy's eye color
   the puppy's fur pattern

6. Two kittens from one litter have the same eye color. One is calm around people because it was handled gently every day. Which trait was shaped by its environment?
   its eye color
   its fur pattern
   its whisker length
   how calm it is around people

7. Radishes in full sun grew larger than the same kind of radishes in shade. Which trait did sunlight affect?
   the kind of seed the color of the skin the shape of the leaves
   the size of the radishes

8. Which trait of a dog is most affected by its environment?
   the shape of its ears the pattern of its spots how heavy it is the color of its eyes

9. A plant on a windy hill has thick, short stems. The same kind of plant in a calm garden has tall, thin stems. What caused the difference?
   the wind on the hill the plants' parents the size of the seeds the age of the plants

10. Seedlings crowded in a small pot grow more slowly than the same seedlings given more space. What most likely slowed their growth?
   slower growth inherited from parents
   seeds planted too close to the top
   too little space for their roots
   too much sunlight on the leaves

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Answer Key - Grade 3 Science Worksheet

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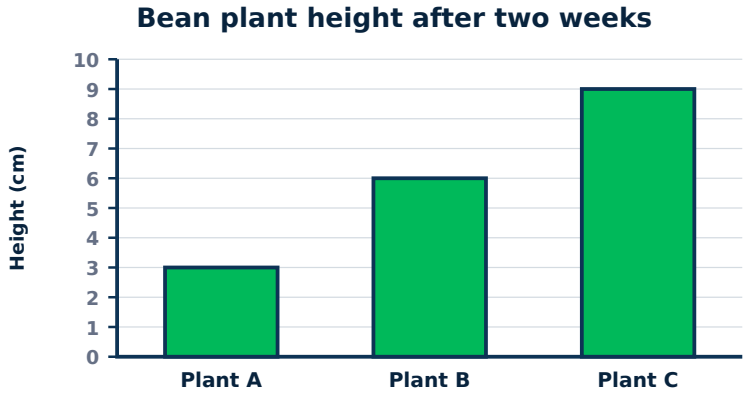
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