Environment and Traits

Grade 3 Science Worksheet

Name _____ Date _____

Circle the answer.

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

2. Fish of the same kind grow smaller in a crowded pond than in a pond with more space and food. What most likely caused the smaller size?
   hatching later in the year
   parents that were small fish
   less food and space for each fish
   colder water in the big pond

3. Two tomato plants grow from the same kind of seed with the same sun and water. Only one gets fertilizer, and it grows bigger. What caused the size difference?
   the fertilizer added to the soil
   the small plant getting more shade
   the plants being different ages
   seeds from different parent plants

4. A plant in a hot, sunny spot needs water more often than the same kind of plant in a cool, shady spot. Why?
   the shady plant has bigger roots from birth
   the shady plant is a different kind
   the sunny plant inherited a need for more water
   heat and sunlight dry the soil faster

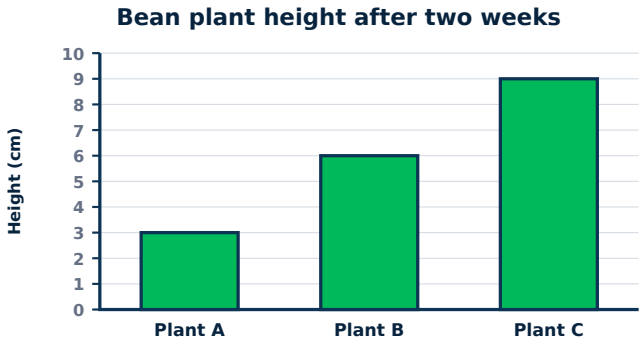
5. Sunflowers planted close together grow taller and thinner than the same kind planted far apart. All get the same water. What caused the difference?
   getting less water than the others
   inheriting a thin shape
   competing with neighbors for sunlight
   being a different variety

6. 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 tree was very young
   the year was dry
   the tree grew faster that year
   the year was very wet

7. 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?

the color of each calf's coat
the breed of each calf's parents
being born in different years
the amount of food and space

8. 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?



6 cm 3 cm 12 cm 9 cm

9. 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 weight the puppy's fur pattern the puppy's ear shape
the puppy's eye color

10. 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 fur pattern
its eye color
its whisker length
how calm it is around people

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Answer Key - Grade 3 Science Worksheet

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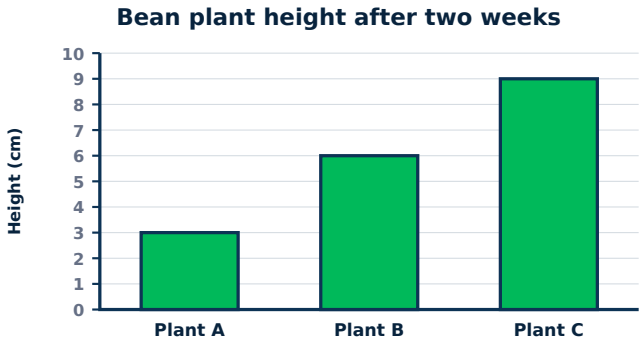
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