Environment and Traits

Grade 3 Science Worksheet

Name _____ Date _____

Circle the answer.

1. 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?
   parents that were small fish
   hatching later in the year
   colder water in the big pond
   less food and space for each fish

2. 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 plants being different ages
   the fertilizer added to the soil
   the small plant getting more shade
   seeds from different parent plants

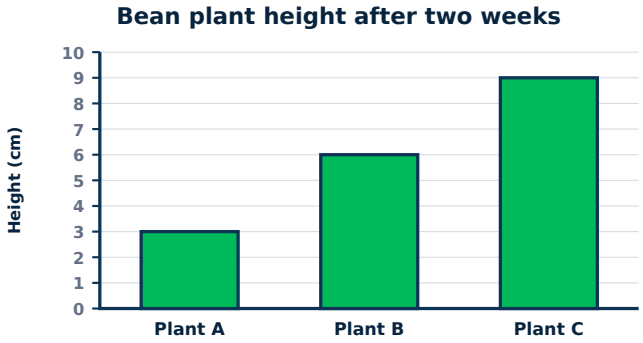
3. A plant in a hot, sunny spot needs water more often than the same kind of plant in a cool, shady spot. Why?
   heat and sunlight dry the soil faster
   the shady plant has bigger roots from birth
   the sunny plant inherited a need for more water
   the shady plant is a different kind

4. 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
   inheriting a thin shape
   getting less water than the others
   being a different variety

5. 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 was very young
   the tree grew faster that year
   the year was dry

6. 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
   the amount of food and space
   being born in different years

7. 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

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

9. 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?
how calm it is around people
its whisker length
its fur pattern
its eye color

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

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Answer Key - Grade 3 Science Worksheet

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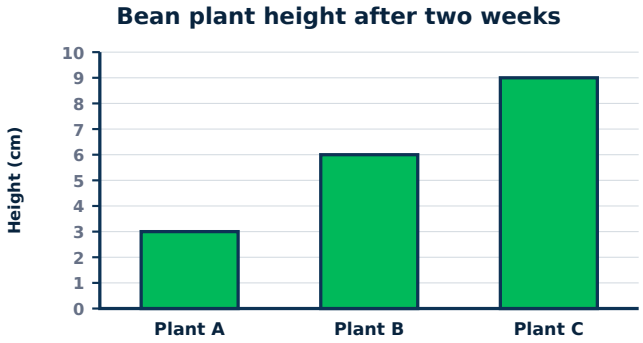
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