Environment and Traits

Grade 3 Science Worksheet

Name _____ Date _____

Circle the answer.

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

2. 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 age of the plants the plants' parents the size of the seeds the wind on the hill

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

4. 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?
   less food and space for each fish
   parents that were small fish
   hatching later in the year
   colder water in the big pond

5. 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
   seeds from different parent plants
   the small plant getting more shade

6. 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 is a different kind
   the shady plant has bigger roots from birth
   heat and sunlight dry the soil faster
   the sunny plant inherited a need for more water

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

8. 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

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

10. 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 9 cm 12 cm

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Answer Key - Grade 3 Science Worksheet

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