Environment and Traits

Grade 3 Science Worksheet

Name _____ Date _____

Circle the answer.

1. Radishes in full sun grew larger than the same kind of radishes in shade. Which trait did sunlight affect?

   the color of the skin the size of the radishes the kind of seed

   the shape of the leaves

2. Which trait of a dog is most affected by its environment?

   the color of its eyes the shape of its ears the pattern of its spots how heavy it is

3. 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 size of the seeds the wind on the hill the plants' parents

   the age of the plants

4. 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

   slower growth inherited from parents

   too little space for their roots

5. 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?

   colder water in the big pond

   parents that were small fish

   less food and space for each fish

   hatching later in the year

6. 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 small plant getting more shade

   the fertilizer added to the soil

   the plants being different ages

   seeds from different parent plants

7. 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 sunny plant inherited a need for more water
- the shady plant is a different kind
- heat and sunlight dry the soil faster

8. 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
- being a different variety
- getting less water than the others

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

10. 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 amount of food and space
- the breed of each calf's parents
- being born in different years

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Answer Key - Grade 3 Science Worksheet

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