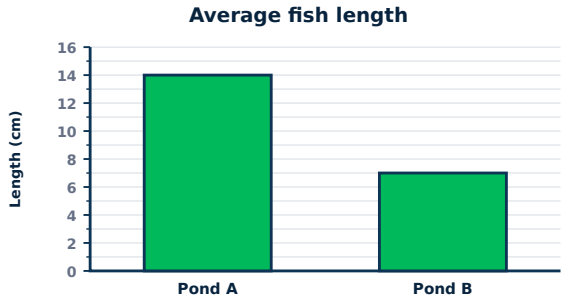
Environment and Traits

Grade 3 Science Worksheet - Challenge Me

Name _____ Date _____

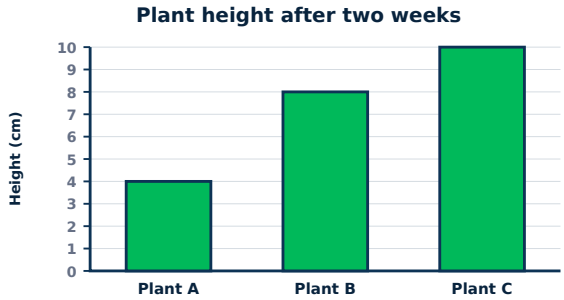
Circle the answer.

1. Pond A has 10 fish and pond B has 100 fish. The ponds are the same size. Use the graph. How much longer are the fish in pond A?



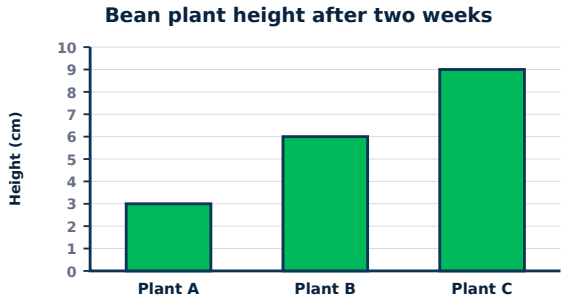
21 cm 2 cm 14 cm 7 cm

2. Plant A was watered 1 time a week, plant B 3 times, and plant C 5 times. Use the graph. What pattern does it show?



plant B grew the most
more water gave taller plants in this test
water made no difference
more water gave shorter plants

3. Plant A got 1 hour of sun a day, plant B got 3 hours, and plant C got 6 hours. Use the graph. Plant D gets 4 hours. About how tall will it grow?



about 2 cm about 7 cm about 10 cm about 12 cm

4. Why do scientists grow two plants of the same kind in the same soil and light, changing only the water?
   - so they can test two things at once
   - so a growth difference comes from the water
   - so the plants can use different pots
   - so the plants inherit different traits

5. A gardener moves a pink hydrangea into soil like the soil where blue hydrangeas grow. What will most likely happen?
   - its new flowers will stay pink
   - its new flowers will turn blue
   - its flowers will turn white
   - its leaves will turn pink

6. Pieces cut from one plant were planted low on a mountain and high on the mountain. The low ones grew tall and the high ones stayed short. Why is this good evidence that the environment affects height?
   - plants grow taller near mountain tops
   - the pieces were planted in the same spot
   - the pieces came from different parent plants
   - all the pieces came from one plant, so only the place differed

7. Which trait is most likely affected by both inheritance and the environment?
   - how tall a sunflower grows
   - the stripes on a zebra
   - the color of a kitten's eyes
   - the number of legs on a beetle

8. Two groups of the same kind of bean plant were grown. Group 1 had 6 hours of light; group 2 had 2 hours. Group 1 grew taller. What should the student do to trust this result?
   - repeat the test with more plants
   - give group 2 more water next time
   - use different kinds of seeds
   - stop after one test

9. A student grows two bean plants from the same kind of seed, in the same pots, with the same water. One sits in a sunny window and one sits in a closet. What is being tested?
   - whether sunlight affects how the plants grow
   - whether the pots affect how the plants grow
   - whether water affects how the plants grow
   - whether the kind of seed affects growth

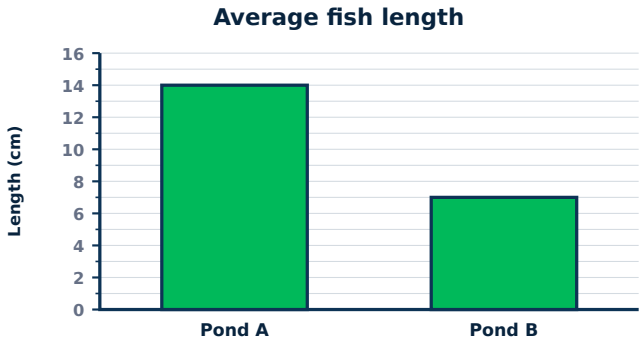
10. A student grows two seedlings in the same light and soil, but waters one twice as often. What is being tested?
    - whether the amount of water affects growth
    - whether the amount of light affects growth
    - whether the kind of soil affects growth
    - whether the seedlings inherited different traits

Environment and Traits

Answer Key - Grade 3 Science Worksheet - Challenge Me

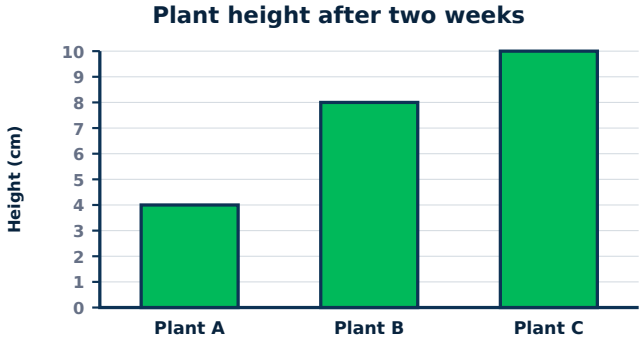
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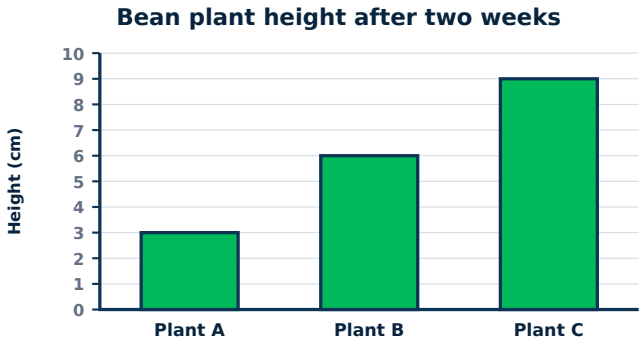
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