Compare Engineering Solutions

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. Turbine designs: A makes 9 units in strong wind, 1 in light wind. B makes 5 units in both. A town has light wind most days. Which is better?

   Turbine B, because it works well in light wind

   neither, because both need wind

   Turbine A, because 9 is the most

   Turbine A, because the wind is always strong

2. Filter A: 4 spoonfuls of dirt left, $2. Filter B: 1 spoonful left, $6. Filter C: 1 spoonful left, $3. Which filter gives the cleanest water for the least money?

   Filter B

   Filters B and C are equally good

   Filter A

   Filter C

3. Tower A holds 3 books and is 40 cm tall. Tower B holds 1 book and is 70 cm tall. Goal: hold 2 books and be at least 50 cm tall. What is true?

   Tower B meets both criteria

   neither tower meets both criteria

   both towers meet both criteria

   Tower A meets both criteria

4. Tower A (triangles) held 9 books. Tower B (squares) held 4 books. Both used 20 straws. What is the best explanation?

   Tower A was taller, so it was stronger

   Tower B used more straws

   the triangle shape made the tower stronger

   squares are stronger than triangles

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Answer Key - Grade 4 Science Worksheet - Challenge Me

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