Compare Engineering Solutions

Grade 4 Science Worksheet - Building Confidence

Name _____ Date _____

Circle the answer.

1. Filter A: very clean water, costs $8. Filter B: clean water, costs $3. Both meet the "clean water" criterion. Budget: $5. Which is the best choice?

   Filter A, because it costs more

   Filter B, because it is clean enough and within budget

   Filter A, because it is the cleanest

2. 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?

   neither tower meets both criteria

   Tower A meets both criteria

   Tower B meets both criteria

3. Two teams want a stronger tower. Team 1 adds triangle braces. Team 2 adds more tape. Team 1's tower holds 5 books; Team 2's holds 3. What should a third team try?

   triangle braces more tape no braces and no tape

4. A team compares towers by asking friends which looks coolest. Why is this a weak comparison?

   it does not test the towers against the criteria

   friends cannot see towers

   looks are the main criterion

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Answer Key - Grade 4 Science Worksheet - Building Confidence

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