Compare Engineering Solutions

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. A class must choose one balloon car for a 4 m race. Car A: 4.2 m, 4.1 m, 4.3 m. Car B: 6 m, 3 m, 5 m. Which should they race, and why?

   either, because both passed 4 m once

   Car B, because it is faster on average

   Car A, because it passes 4 m every time

   Car B, because it once went 6 m

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

   looks are the main criterion

   it does not test the towers against the criteria

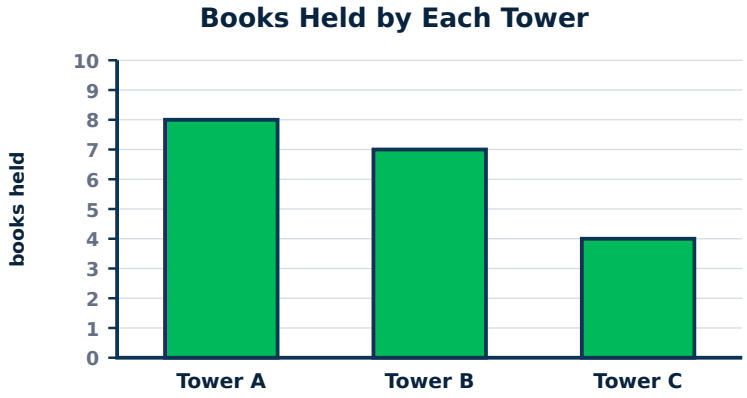
   friends cannot see towers

   towers should never be compared

3. A school must pick a sunshade. Shade 1 cools 8 degrees, costs $40. Shade 2 cools 6 degrees, costs $15. The goal is at least 5 degrees cooler for under $20. Which is best?

   both shades Shade 1 Shade 2 neither shade

4. Goal: hold at least 6 books. Limit: 25 straws. Tower A: 8 books, 30 straws. Tower B: 7 books, 24 straws. Tower C: 4 books, 15 straws. Which tower is the best solution?



   Tower C Tower A Tower B none of them

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Answer Key - Grade 4 Science Worksheet - Challenge Me

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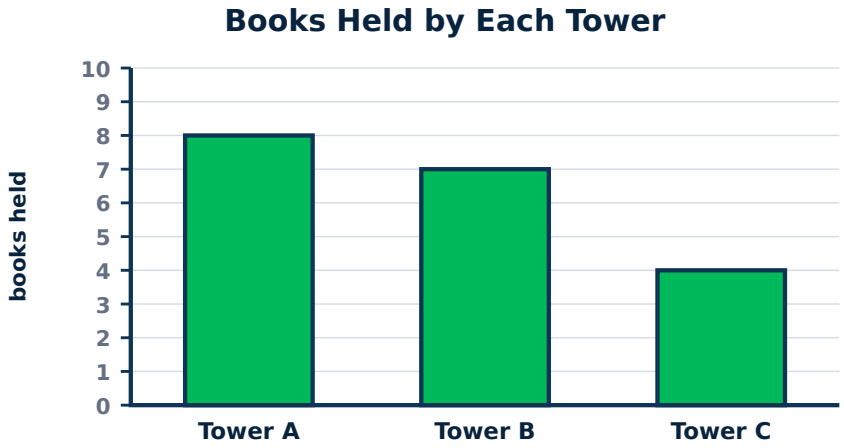
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