Compare Engineering Solutions

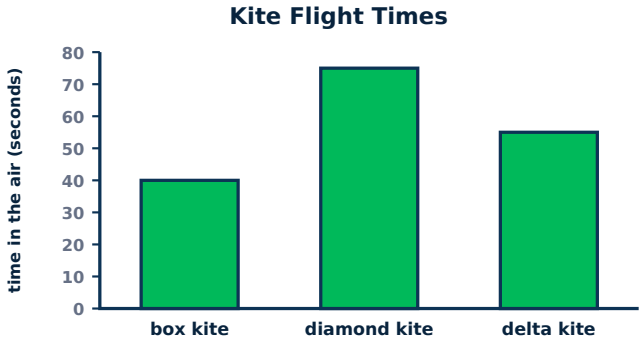
Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

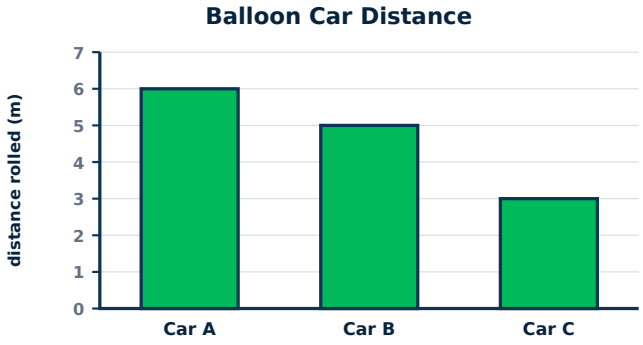
1. Filter 1 uses sand and gravel. Filter 2 uses sand, gravel and charcoal. Filter 2's water smelled better. What can the class conclude?
   adding charcoal improved the smell
   gravel alone fixed the smell
   both filters were exactly the same
   sand made the water smell worse

2. Three kites were tested in the same wind. The goal is to stay up at least 60 seconds. Which kite should the class choose if all cost the same?



   the delta kite the box kite the diamond kite any kite works

3. Criteria: roll at least 4 m. Constraint: cost $3 or less. Car A: 6 m, $4. Car B: 5 m, $2. Car C: 3 m, $1. Which car meets both?



   Car A Car B all three cars Car C

4. Design A cooler: 6 hours cold, weighs 3 kg. Design B: 5 hours cold, weighs 1 kg. Goal: at least 5 hours and under 2 kg. Which meets every goal?
   neither design Design B both designs Design A

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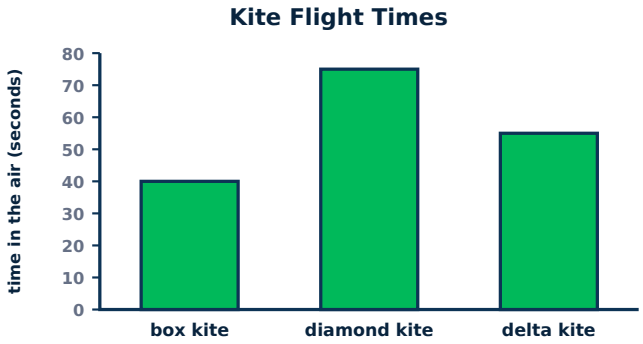
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Answer Key - Grade 4 Science Worksheet - Challenge Me

Circle the answer.

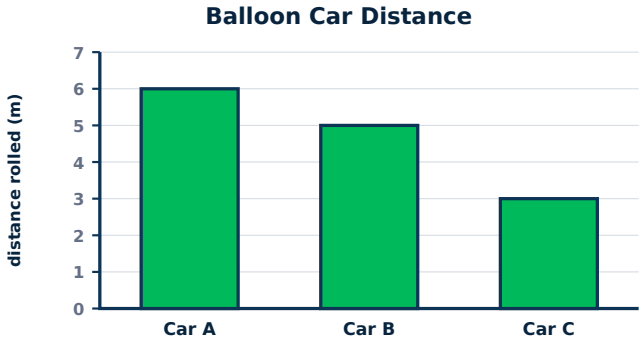
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