# Compare Engineering Solutions

Grade 4 Science Worksheet

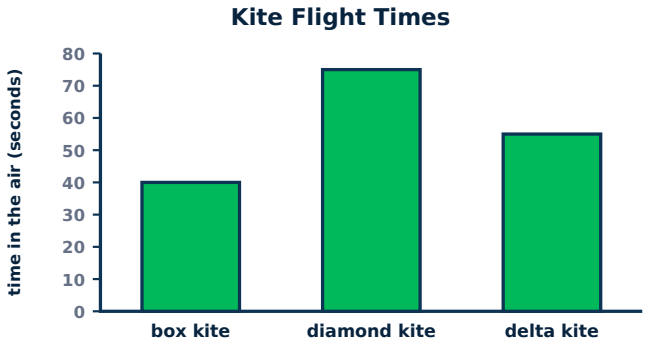
Name _____ Date _____

Circle the answer.

1. A team compares towers by asking friends which looks coolest. Why is this a weak comparison?
   looks are the main criterion
   towers should never be compared
   it does not test the towers against the criteria
   friends cannot see towers

2. 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?
   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
   either, because both passed 4 m once

3. 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 diamond kite  the delta kite  the box kite  any kite works

4. Turbine A makes 10 units, is loud, costs $50. Turbine B makes 8 units, is quiet, costs $30. A school wants at least 7 units, quiet, under $40. Which fits, and why?
   Turbine A, because it makes the most
   Turbine A, because it is loud enough to notice
   neither, because both make electricity
   Turbine B, because it meets all three needs

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Answer Key - Grade 4 Science Worksheet

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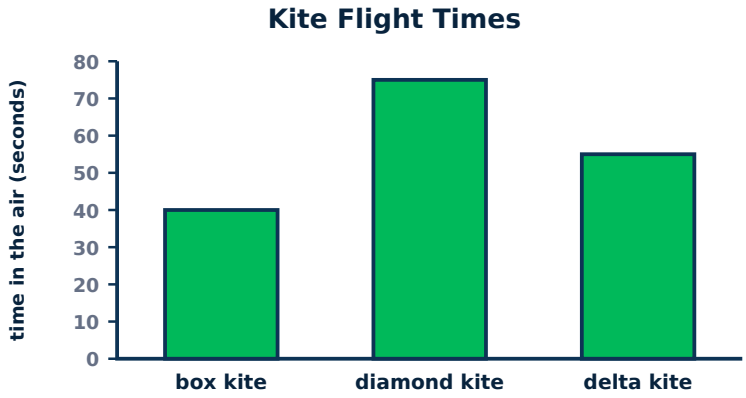
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