Compare Engineering Solutions

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. Two shade designs were tested on a hot day. Design A lowered the temperature 7 degrees; Design B, 3 degrees. Design B was tested at 5 p.m. Why is this comparison unfair?

   both shades are the same color

   they were tested at different times of day

   temperature cannot be measured

   Design A cooled more

2. Turbine with 3 blades made 9 units. Turbine with 6 blades made 7 units and cost more. What can the team conclude?

   more blades always make more electricity

   blade number cannot be compared

   the 6-blade turbine was the best value

   more blades did not make more electricity here

3. Kite A flies in light wind but breaks in strong wind. Kite B needs strong wind to fly. The fair is usually breezy, sometimes gusty. What should the team try next?

   make Kite A lighter so it breaks less

   a sturdier frame on Kite A so it survives gusts

   fly no kite at the fair

   use Kite B and hope for strong wind

4. Car X rolled 3 m, 6 m and 4 m. Car Y rolled 5 m, 5 m and 5 m. Car Z rolled 2 m, 7 m and 5 m. Which car was most consistent?

   Car X

   all were equally consistent

   Car Z

   Car Y

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Answer Key - Grade 4 Science Worksheet - Challenge Me

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