Compare Engineering Solutions

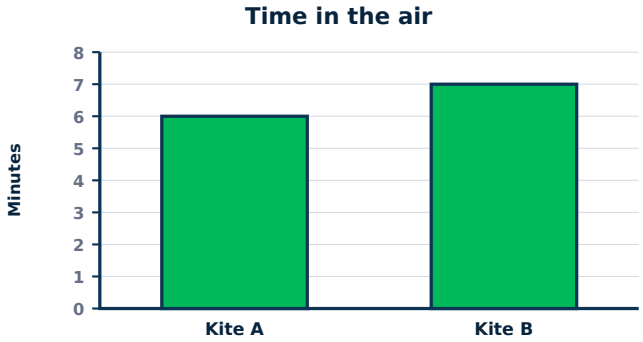
Grade 3 Science Worksheet - Building Confidence

Name _____ Date _____

Circle the answer.

1. Which statement is based on a test result?
   It looks the strongest.
   It held the most books without bending.
   It was the most fun to build.

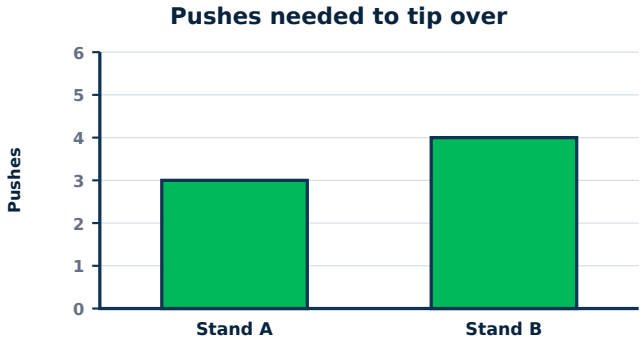
2. The goal is a kite that stays up at least 5 minutes. Use the graph. Which kites meet the goal?



   Kite B only Kite A only both kites

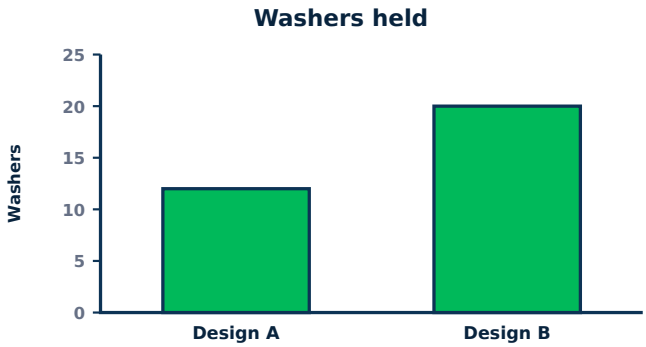
3. Why do engineers compare designs after testing?
   to find which used the most tape
   to find which was built first
   to find which best meets the goal

4. The goal is a stand that takes at least 5 pushes to tip over. Use the graph. Which stands meet the goal?



   Stand B neither stand Stand A

5. The goal is a bridge that holds at least 18 washers. Use the graph. Which design meets the goal?



both designs Design B Design A

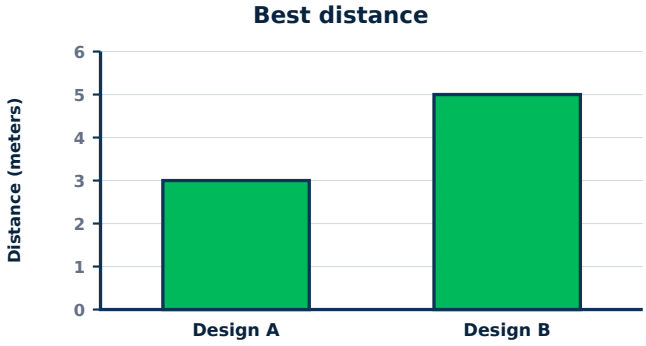
6. Which measurement should decide which bridge holds the most weight?
how long each bridge took to build
how much each bridge weighs empty
how many washers each bridge held

7. Which test lets two parachutes be compared fairly?
drop both from the same height
drop each from a different height
drop one indoors and one outside in wind

8. A brace must use only cardboard. Which design meets this limit?
a folded cardboard brace a metal rod a wooden plank

9. A test shows a ramp is too slippery for a toy car to grip. Which redesign fixes this?
add sandpaper to the ramp make the ramp smoother make the ramp steeper

10. The goal is a paper airplane that flies at least 4 meters. Use the graph. Which design meets the goal?



neither design Design A Design B

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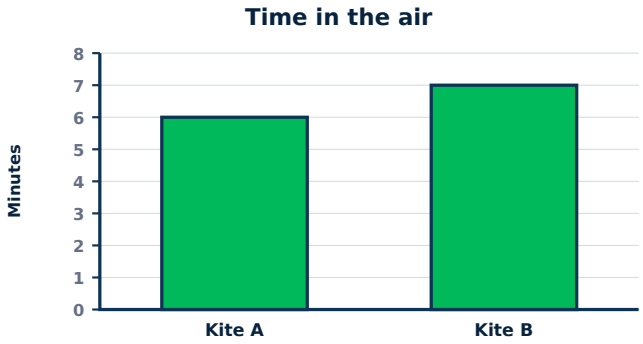
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Answer Key - Grade 3 Science Worksheet - Building Confidence

Circle the answer.

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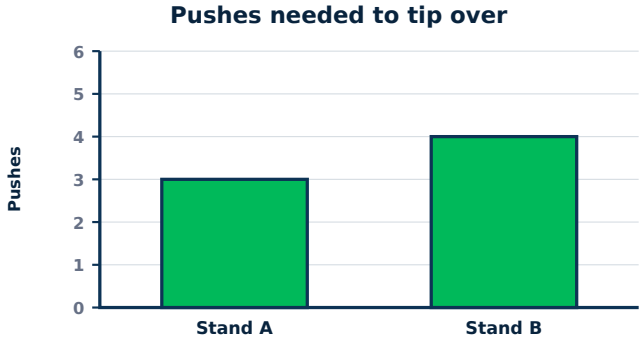
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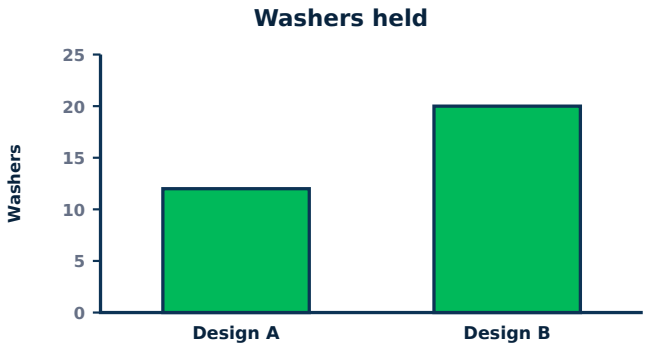
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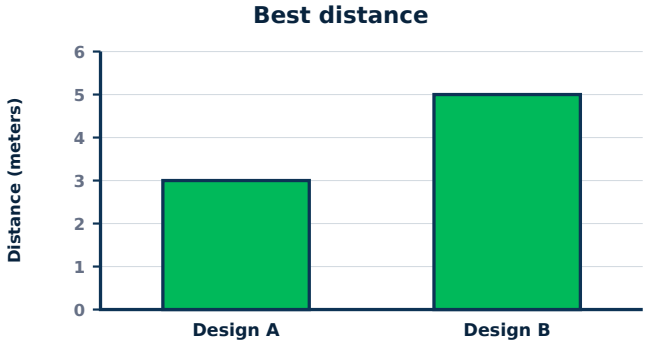
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