Compare Engineering Solutions

Grade 3 Science Worksheet - Building Confidence

Name _____ Date _____

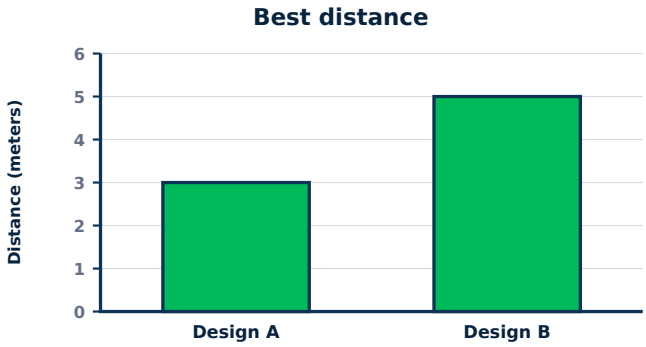
Circle the answer.

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

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

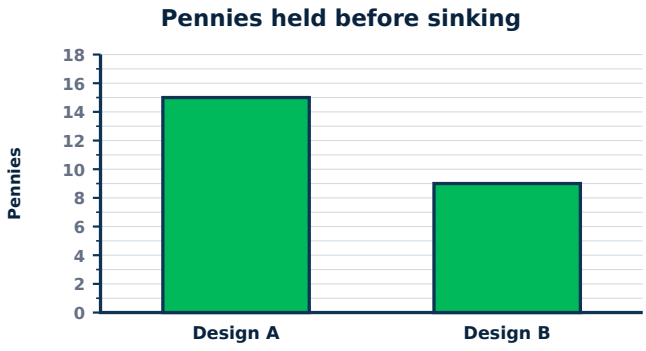
3. A test shows a ramp is too slippery for a toy car to grip. Which redesign fixes this?
   make the ramp steeper add sandpaper to the ramp make the ramp smoother

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



   Design B neither design Design A

5. The goal is a foil boat that holds at least 12 pennies. Use the graph. Which design meets the goal?

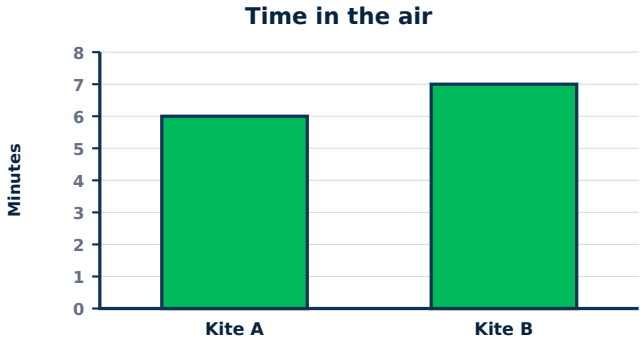


   Design B Design A both designs

6. Tower A is 40 cm tall but falls when shaken. Tower B is 30 cm tall and stays up. The goal is a tower that stays standing. Which meets the goal?
   Tower B both towers Tower A

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

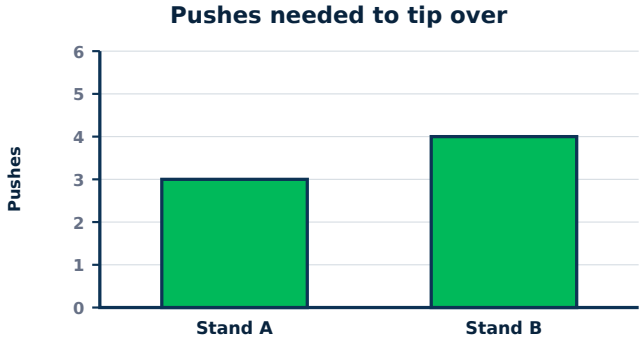
8. The goal is a kite that stays up at least 5 minutes. Use the graph. Which kites meet the goal?



both kites Kite B only Kite A only

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

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



neither stand Stand A Stand B

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Answer Key - Grade 3 Science Worksheet - Building Confidence

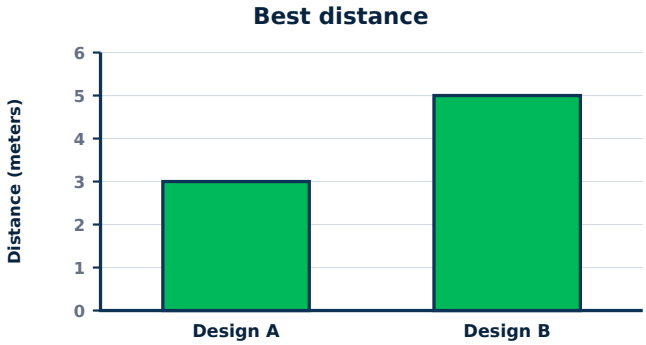
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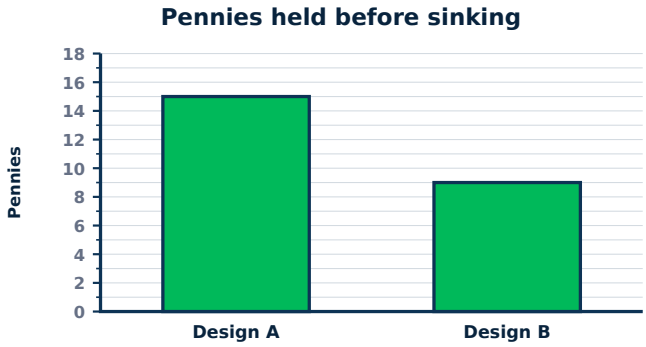
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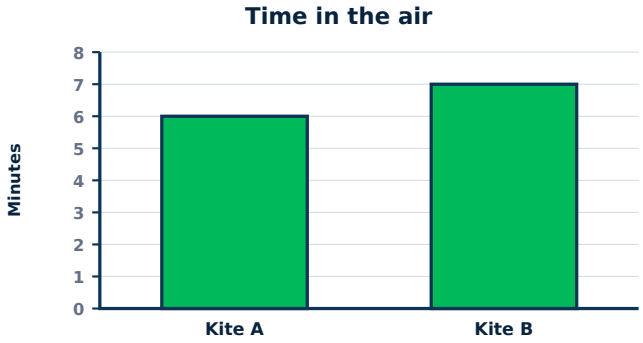
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both kites

Kite B only

Kite A only

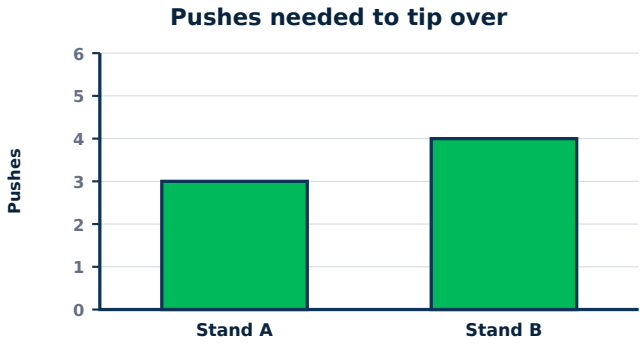
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neither stand

Stand A

Stand B