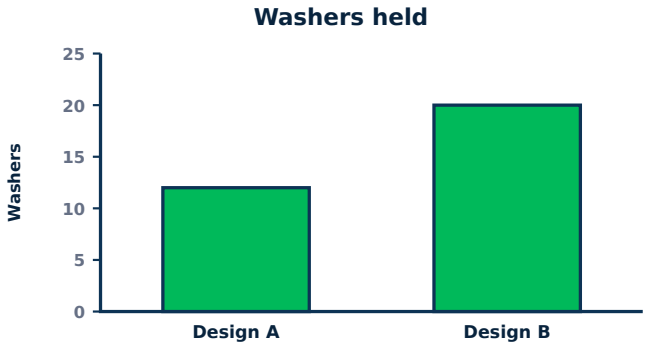
Compare Engineering Solutions

Grade 3 Science Worksheet - Building Confidence

Name _____ Date _____

Circle the answer.

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



Design A Design B both designs

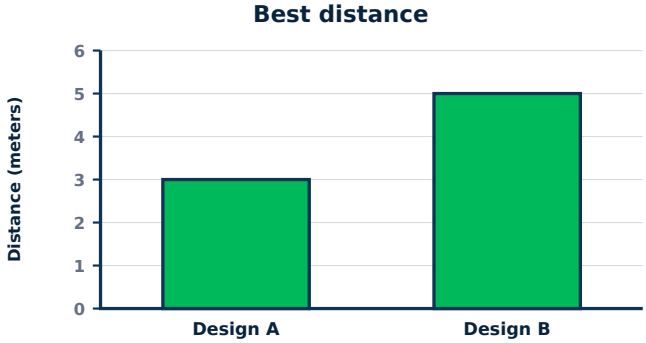
2. Which measurement should decide which bridge holds the most weight?
how much each bridge weighs empty
how long each bridge took to build
how many washers each bridge held

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

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

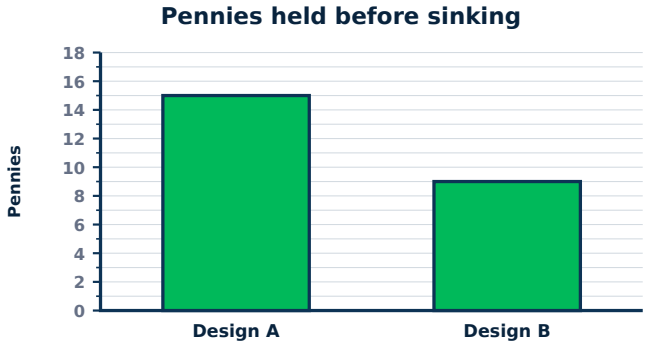
5. A test shows a ramp is too slippery for a toy car to grip. Which redesign fixes this?
add sandpaper to the ramp make the ramp smoother make the ramp steeper

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



neither design Design B Design A

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



Design B both designs Design A

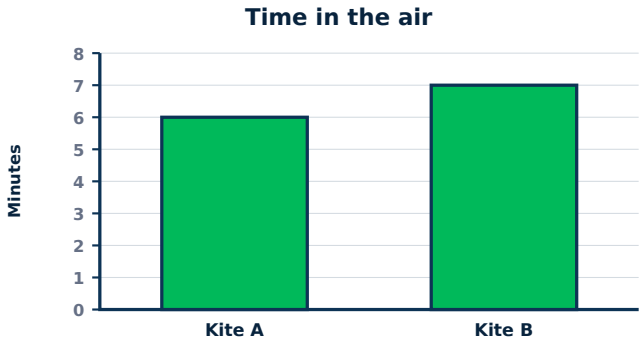
8. Tower A is 40 cm tall but falls when shaken. Tower B is 30 cm tall and stays up. The goal is a tower that stays standing. Which meets the goal?

Tower A Tower B both towers

9. Which statement is based on a test result?

It was the most fun to build.
It held the most books without bending.
It looks the strongest.

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



Kite A only both kites Kite B only

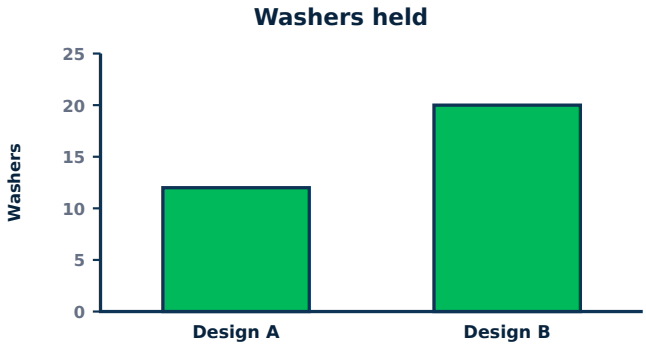
Scan to get this marked free. No screen time for your child.
Print it · do it in pencil · scan it · PencilGo picks the next sheet.

Compare Engineering Solutions

Answer Key - Grade 3 Science Worksheet - Building Confidence

Circle the answer.

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Design A (Design B) both designs

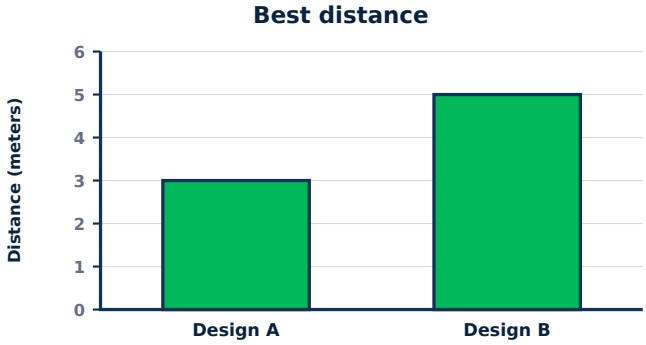
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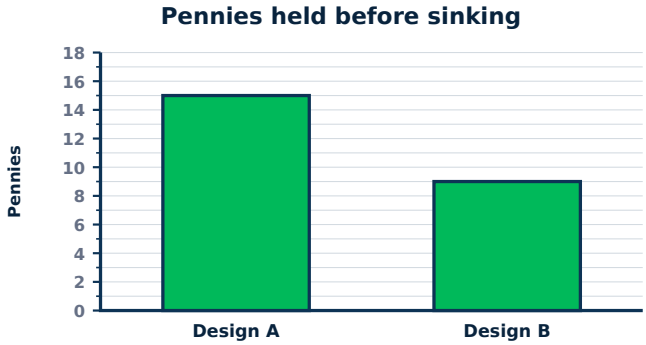
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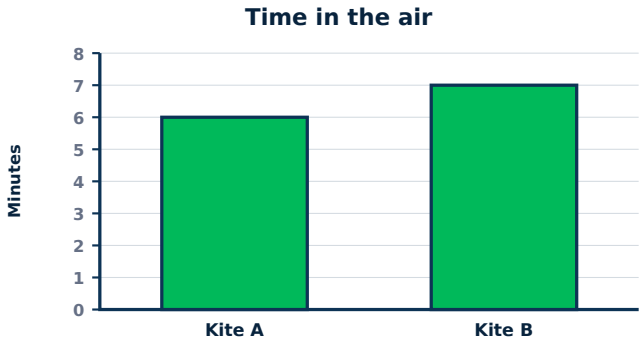
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