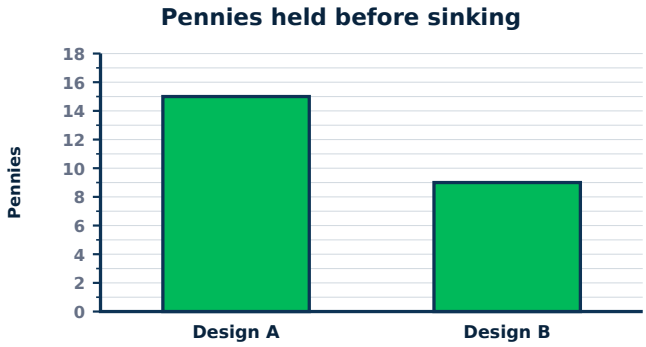
Compare Engineering Solutions

Grade 3 Science Worksheet - Building Confidence

Name _____ Date _____

Circle the answer.

1. 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

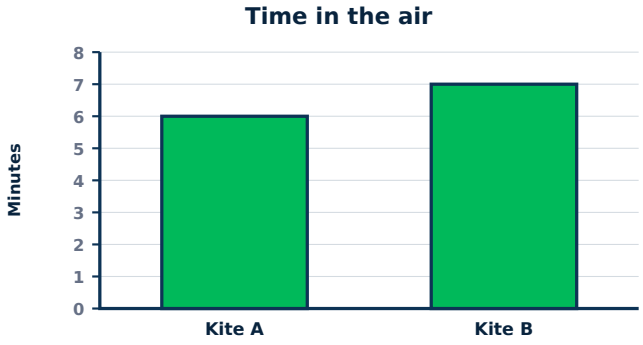
2. Tower A is 40 cm tall but falls when shaken. Tower B is 30 cm tall and stays up. The goal is a tower that stays standing. Which meets the goal?

Tower A both towers Tower B

3. Which statement is based on a test result?

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

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

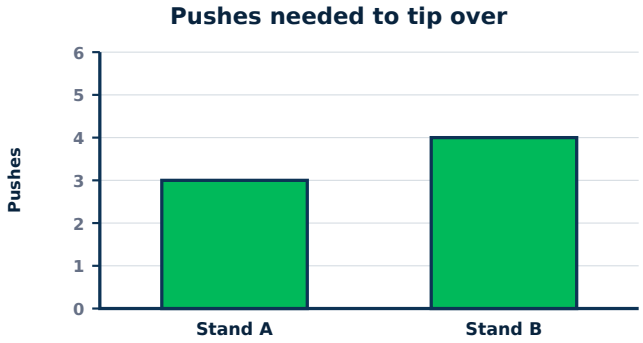


Kite A only both kites Kite B only

5. Why do engineers compare designs after testing?

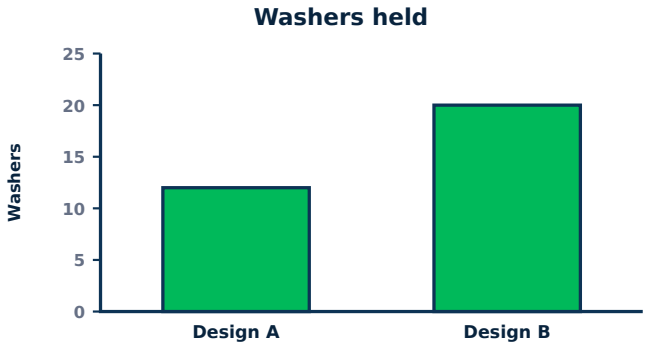
to find which was built first
to find which best meets the goal
to find which used the most tape

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



Stand A Stand B neither stand

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



Design B Design A both designs

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

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

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

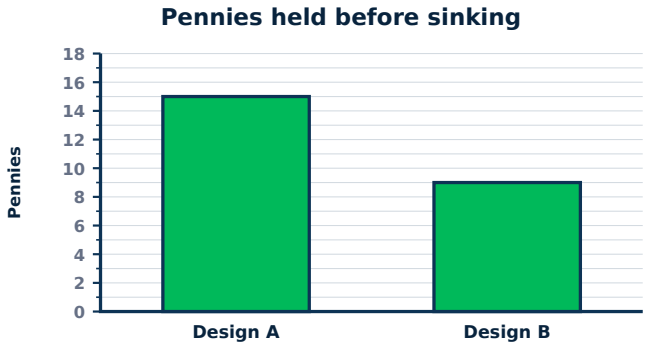
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Print it · do it in pencil · scan it · PencilGo picks the next sheet.

Compare Engineering Solutions

Answer Key - Grade 3 Science Worksheet - Building Confidence

Circle the answer.

1. 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

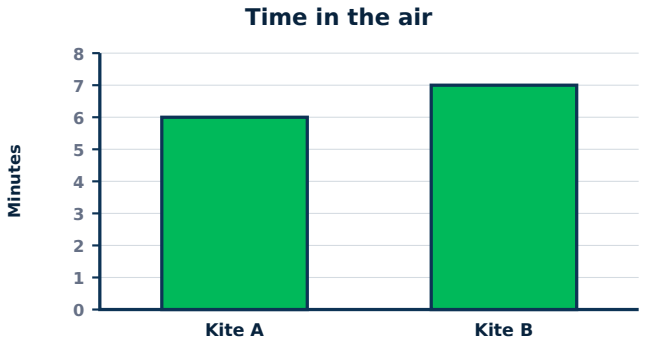
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Tower A both towers (Tower B)

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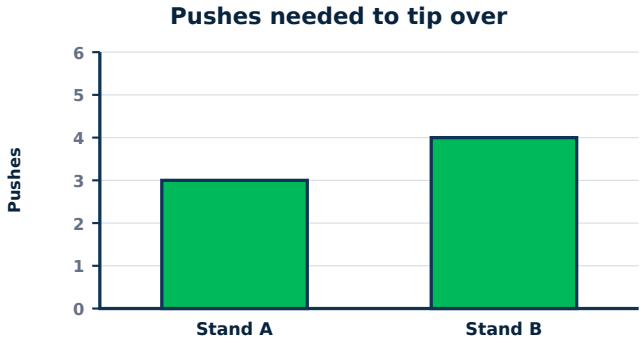


Kite A only (both kites) Kite B only

5. Why do engineers compare designs after testing?

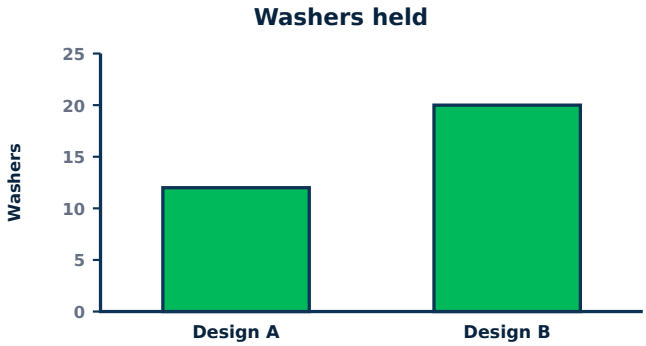
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