Build and Test a Design

Grade 1 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer, or write the answer on the line.

1. Mia's goal is 4 blocks. Tom's goal is 6 blocks. Both bridges held 5. Who met the goal?

   Tom Neither Mia Both

2. Why draw a plan before you build?

   to hide mistakes to skip testing to use more glue to decide what to build

3. Which sentence is a good design goal?



   The tower must be a surprise.

   The tower must stand and hold 4 blocks.

   The tower must be my favorite color.

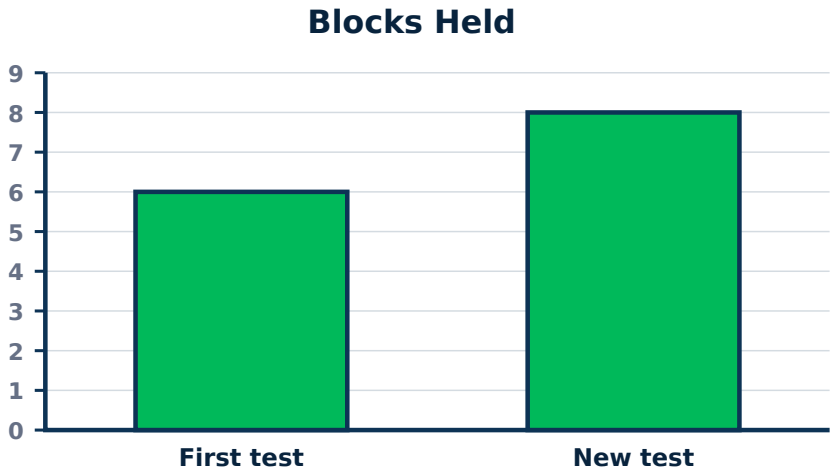
   The tower must be pretty.

4. The goal is 8 blocks. The bridge held 6. How many more blocks must it hold?



   _____

5. Look at the bars. How many blocks did the new design hold?



   _____

6. Test 1 held 3 blocks. Test 2 held 5. Test 3 held 5. What does this show?

- The design got worse each time.
- The design never changed.
- The design got better each time.
- The design got better, then stayed the same.

7. A student changes the base, the material and the height all at once. What is the problem?

- The test will be quicker.
- The tower will be taller.
- She will not know which change helped.
- Nothing is wrong.

8. A kite does not fly. What is the best next step?



- Test it again with no changes.
- Say it works.
- Change one thing and test again.
- Throw it away.

9. The goal is to hold 8 blocks. Which result means the design worked?

It held 9 blocks. It held 6 blocks. It held 7 blocks. It fell at once.

10. Which is a fair test for two paper bridges?

- Test only one bridge.
- Put the same blocks on each.
- Use a different table each time.
- Put more blocks on one.

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Answer Key - Grade 1 Science Worksheet - Challenge Me

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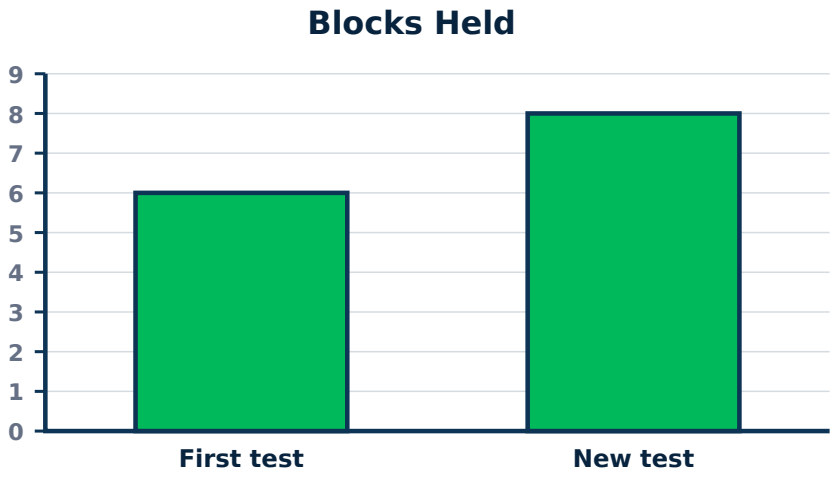
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