Build and Test a Design

Grade 1 Science Worksheet - Challenge Me

Name _____ Date _____

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

1. 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 pretty.

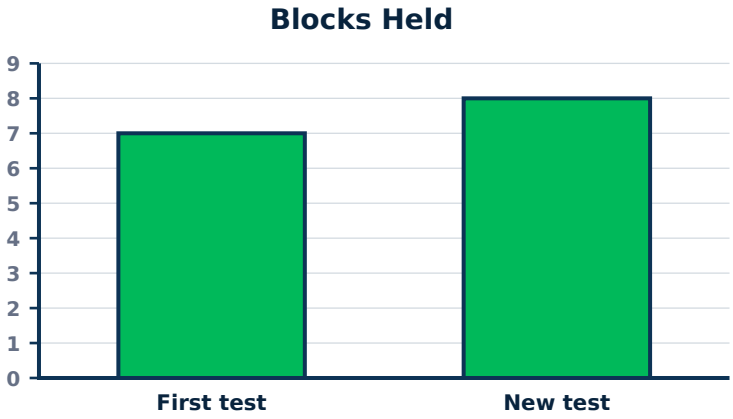
The tower must be my favorite color.

2. The goal is 8 blocks. The bridge held 7. How many more blocks must it hold?



_____

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



_____

4. 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.

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

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

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



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

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

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

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

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

9. A bridge holds weight but bends. Which change keeps what works?

- Change the goal.
- Remove the wide base.
- Add a support and keep the wide base.
- Start over with all new parts.

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

Neither Tom Both Mia

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Answer Key - Grade 1 Science Worksheet - Challenge Me

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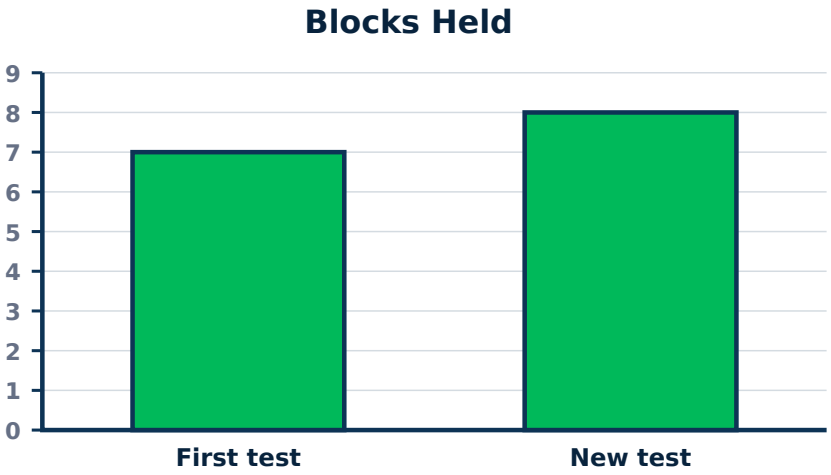
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