

Name:

Date:

The Science Fair Robot

Liam wanted to enter the school science fair. After thinking about several ideas, he decided to build a robot.

The robot would not walk or talk, but it could sort small objects by color.

Liam spent weeks gathering materials. He used cardboard, wires, plastic containers, and a small motor kit.

Sometimes the project was frustrating.

One afternoon, the robot stopped working completely.

"I'll never finish in time," Liam sighed.

His grandfather looked at the project.

"Every inventor faces problems," Grandpa said. "The important thing is to keep trying."

Liam carefully checked each part. Finally, he discovered that one wire had come loose.

After reconnecting it, the robot worked again.

On science fair day, students and parents visited the gym to see the projects.

Liam demonstrated how the robot sorted red, blue, and yellow blocks into separate containers.

The judges asked several questions.

Liam explained how the motor helped move the blocks and how he tested different designs.

At the end of the day, Liam won a ribbon for creative engineering.

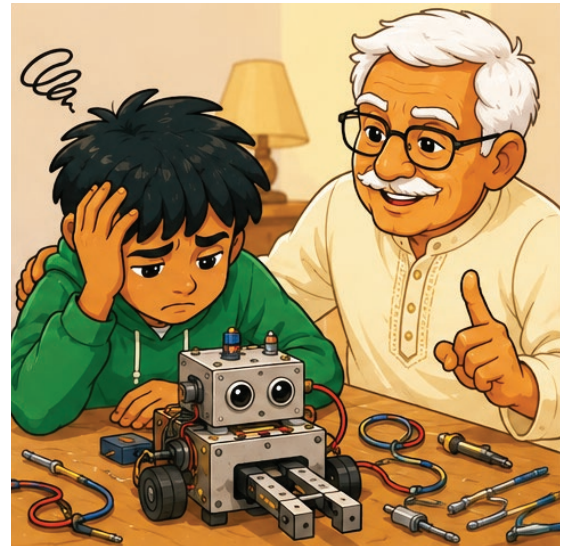
Although he was proud of the ribbon, he felt even better about something else. He had learned that mistakes are part of learning.



The Science Fair Robot

Multiple Choice

1. What project did Liam build?
 - A. Volcano
 - B. Bridge
 - C. Robot
 - D. Rocket
2. What could the robot do?
 - A. Fly
 - B. Sort colors
 - C. Talk
 - D. Dance
3. Why did Liam become frustrated?
 - A. Lost blocks
 - B. Wire came loose
 - C. Judges left
 - D. Motor disappeared
4. Who encouraged Liam?
 - A. Teacher
 - B. Brother
 - C. Friend
 - D. Grandfather
5. Main idea:
 - A. Learning often requires persistence.
 - B. Robots are easy to build.
 - C. Science fairs are boring.
 - D. Motors never fail.



The Science Fair Robot

Short Answer

6. How did Liam fix the robot?

7. What did he learn from the project?

8. Why did judges ask questions?

Vocabulary

A. difficult

B. original

C. designing/building things

D. showed

9. creative ____ 10. demonstrated ____ 11. engineering ____ 12. frustrating ____

Cause & Effect

13. **Cause:** Robot stopped working **Effect:** _____

14. **Cause:** Loose wire found **Effect:** _____

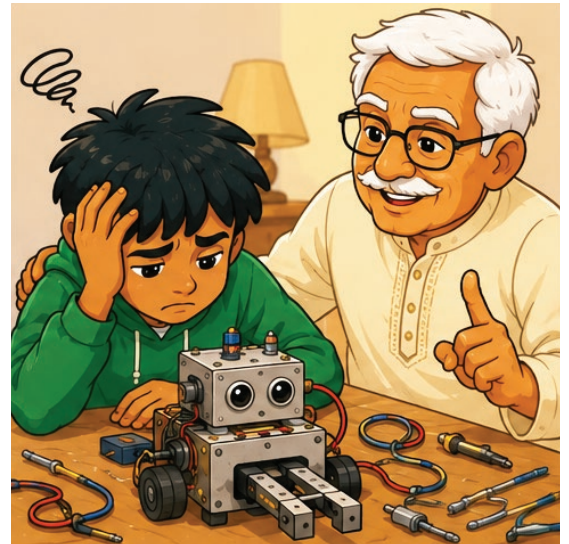
Writing and Thinking

15. Describe a time you kept trying even when something was difficult.

ANSWER KEY

Multiple Choice

1. What project did Liam build?
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5. Main idea:
 - A. Learning often requires persistence.**
 - B. Robots are easy to build.
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ANSWER KEY

Short Answer

6. How did Liam fix the robot?

Reconnected loose wire.

7. What did he learn from the project?

Mistakes are part of learning.

8. Why did judges ask questions?

To understand the project.

Vocabulary

A. difficult

B. original

C. designing/building things

D. showed

9. creative **B** 10. demonstrated **D** 11. engineering **C** 12. frustrating **A**

Cause & Effect

13. **Cause:** Robot stopped working **Effect:** **Checked project carefully.**

14. **Cause:** Loose wire found **Effect:** **Robot worked again.**

Writing and Thinking

15. Describe a time you kept trying even when something was difficult.

Answers vary.