

Instructions: Look at the picture of the blocks. Fill in the puzzles using the answer bank (a grown-up can read the words aloud). Read the Did you know? box. Number the 4 steps in order, tick True or False, match each word to its meaning, then write short answers.

1. Block puzzles

Answer bank: **bug** **debugging** **right** **test**

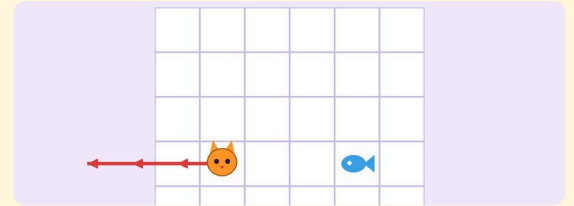
Question	Answer
The fish is to the right. The cat should move...	
A mistake in code is a...	
Fixing a mistake is called...	
After a fix, we...	

About this topic

A bug is a mistake in code that makes it do the wrong thing. Every coder makes bugs, even experts. Finding and fixing them is called debugging. Bugs are not bad news. They are puzzles, and solving them makes you a better coder.

Did you know?

- The first computer bug was a real moth stuck in a machine.
- Every coder makes bugs, even experts.
- Detectives and coders both look for clues.



Spot the bug in blocks

2. Put the steps in order

Write 1 to 4 in the boxes (1 = first).

- ☐ Guess: Think about which part is wrong
- ☐ Repeat: Keep going until it works
- ☐ Notice: See what went wrong
- ☐ Test: Run it again

3. True or false?

Only bad coders make bugs.	☐ True	☐ False
Read blocks one at a time to find a bug.	☐ True	☐ False
After a fix, test again.	☐ True	☐ False
Bugs can never be fixed.	☐ True	☐ False

4. Match up

Write the letter of the right meaning in the box.

Bug	A. A note from the computer saying what went wrong.
Debugging	B. A mistake in code.
Error message	C. Which line of code has the problem.
Line number	D. Finding and fixing bugs.

5. Short answers

1. Circle the wrong block: move left (fish is right).

2. What do we do after we fix a bug?

3. How can you feel when you find a bug?

4. Explain in your own words: Explain what a bug is, in your own words.

5. Stretch: Why should you change one thing at a time when debugging?