

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: (3) (4) (4) (forever)

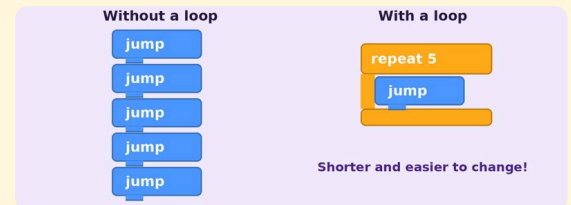
Question	Answer
Repeat 3 times: clap. How many claps?	
A square has how many sides?	
The loop that never stops is...	
Repeat 2 times: jump, jump. How many jumps?	

About this topic

Imagine telling a sprite to jump 20 times. You could snap 20 jump blocks together, but that is long and boring. A loop repeats code for us. Coders love loops, because they make code shorter and easier to change.

Did you know?

- The Earth goes round the Sun in a loop every year.
- Loops save coders lots of typing.
- A clock's hands go round in a loop.



Why we need loops

2. Put the steps in order

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

- ☐ Count: Decide how many times
- ☐ Test: Run it and count the repeats
- ☐ Spot: Find steps that repeat
- ☐ Wait: Add a wait in forever loops

3. True or false?

A loop repeats code.	☐ True	☐ False
Forever stops after 5 times.	☐ True	☐ False
Repeat 4 can draw a square.	☐ True	☐ False
Loops make code longer.	☐ True	☐ False

4. Match up

Write the letter of the right meaning in the box.

Loop	A. A loop that never stops on its own.
Repeat	B. Code that repeats.
Forever	C. A number that counts each time round a loop.
Counter	D. A loop that runs a set number of times.

5. Short answers

- How many times does 'repeat 5' repeat?

- Draw the shape made by repeat 4: move, turn.

- Name something that goes round and round.

- Explain in your own words: Explain what a loop is, in your own words.

- Stretch: Why is a loop better than copying the same block many times?

