

Fact Families

Instruction Summary

1. Students begin in Ozobot Blockly Level 3.

Movement category: add a small circle and a move block

Change the dropdowns to reflect the following:

Small circle, medium speed, forward, left, 4 seconds

Move forward distance 5 steps, medium speed

2. In Level 4, add a say number block, delete the 1 block.

Go to the Math category. Add a random integer from 1 to 100 block to the right side of the say number block.

Change the 1 to 2, and the 100 to 12.

3. Duplicate the three blocks on the workspace. Put them in the following order, and update dropdowns:

Small circle

Say number

Move

Move: backward

Say number

Small circle: backward, right

Note: if you'd like your students to practice with different numbers, update the numbers here.

4. From Light Effects add two blocks: turn top light off, and set top light color randomly.

From Wait add a wait 1 second block, change the dropdown to 2.

Place the turn top light off block as the first block in the sequence.

Place the set top light color randomly and the wait block after the first move block.

5. Test the program. The bot should move, say a number, move, show a color on the top LED, wait, move, say another number, and move one more time. Troubleshoot if needed.

6. Students write the first number Ozobot says. Using the Color Key at the bottom of the Activity Sheet. Ozobot's top LED light will tell students whether to add or multiply the numbers Ozobot says. Students write the second number Ozobot says.

7. Prompt students to write four math facts using the information the bot said.

8. Click Run Program to complete the remaining problems.