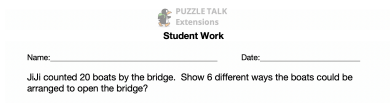
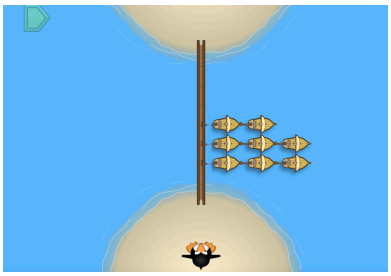
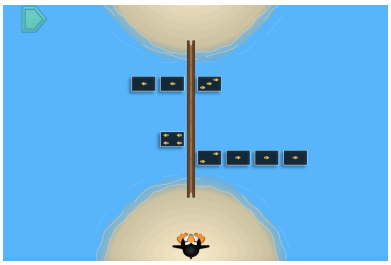
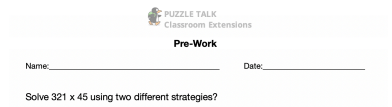
PUZZLE TALK Extensions

Second Grade | **Equal Groups** | **Tug Boat**

These activities extend the puzzles and the concepts learned in the puzzles throughout the week. The activities might be tasks, word problems, journal writing activities, or hands-on activities designed to deepen student understanding and help students make connections.

Some of the activities listed below work well in a remote environment and can be easily added to your virtual classroom. The activities that can be used remotely are designated as such.

		• Pose the following problem to students: ○ JiJi counted 20 boats by the bridge. Show 6 different ways the boats could be arranged to open the bridge? • Give students math tools and pencil/paper. • Ask students to record their solutions as expressions.
		• Display a puzzle from Level 2. • Explain to students that when we solve the puzzle both sides will equal each other. Before we solve the puzzle, however, we could write an inequality to represent what we see. • Work together to write the inequality (e.g., $4 + 3 + 2 < 4 + 3 + 4$). • Read the inequality together (e.g., $4 + 3 + 2$ is less than $4 + 3 + 4$) and discuss why it is true. • Repeat with remaining puzzles in Level 2.
		• Use a balance scale and 1 gram weights (or a number balance) to model the puzzles. • Represent the puzzle before you solve it on the scale. One side will have more and be down. • Explain that the puzzle right now is an inequality- the sides are not equal. • Have students solve the puzzle and represent the solution on the scale. • Show students that now the scale is balanced. Both sides equal the same number. • Repeat with other puzzles.
		• Display the first puzzle in Level 6. • Have students work with a partner to solve the puzzle. • Talk as a class about students' solutions and strategies. • Write the solution as a balanced equation.
		• **If you are using Puzzle Talks as part of your remote learning plan,** it is important to think about how to maximize the learning in the virtual environment. One strategy might be to do Pre-Work. Pre-Work encourages students to think about the concept prior to the Puzzle Talk.

PUZZLE TALK
Extensions

Student Work

Name:_____ Date:_____

JiJi counted 20 boats by the bridge. Show 6 different ways the boats could be arranged to open the bridge?

PUZZLE TALK
Extensions

Pre-Work

Name:_____ Date:_____

Think about these numbers: 8 and 11. Can you share 8 pieces of candy equally with a friend? What about 11 pieces of candy? Show how you know.

Is this equation true or false? 5 + 1 = 4 + 2. Explain how you know.

Sandra has 14 crayons. She has some red, some green and some yellow. She wants to share them equally with her sister. Show three different ways that she and her sister will have the same number of crayons and the same number of each color.