







# Missing Addend

First Grade

Addition and Subtraction Situations with Unknowns

Addition and Subtraction Relationships LI

3 levels

## Probing Questions

- How do you decide how many creatures to choose?
- What does the puzzle show you? What do you need to find out?

## What Do the Standards Say?

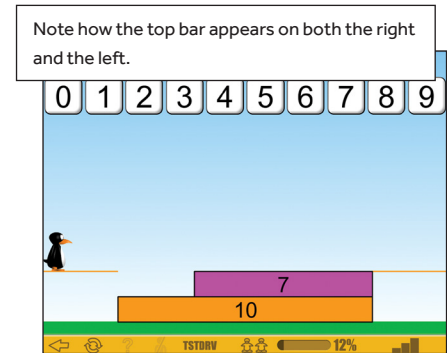
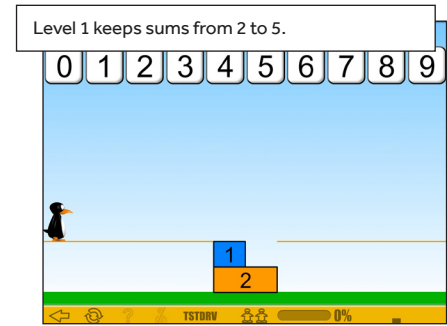
This model is similar to the tape diagrams and bar models referenced in the standards.

## What's Important Here?

This game is near the end of the objective since there is little support to solve this visually. Take notice of students who reason that since there is only space for a small bar, the number they choose must be less than the number that is already there. This is also a good opportunity to discuss number relationships and decomposing numbers.

STMath.

Copyright © 2017 MIND Research Institute. All rights reserved.



Addition and Subtraction Situations with Unknowns 7

# Answer Check

First Grade

Addition and Subtraction Situations with Unknowns

Addition and Subtraction Relationships LI

4 levels

## Probing Questions

- What do you notice about the numbers in the equation?
- What do you notice happens after you make a choice?
- How do you know which expression to choose?

## Supporting Struggling Students

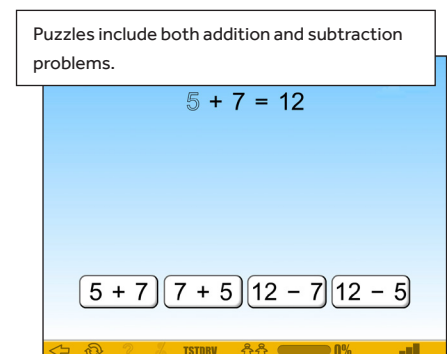
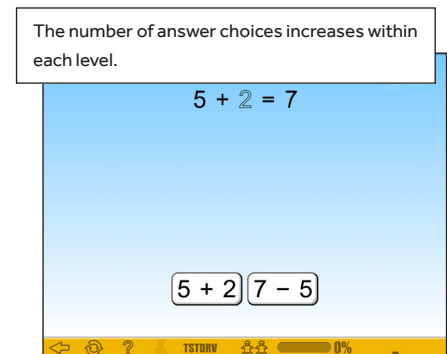
This game can be challenging for students as there is no visual model and the proof is numerical. Some students may not notice that one of the numbers in the equation is outlined. Use Teacher Mode to slow the animation to see how the chosen expression moves up to replace the outlined number.

## Something to Think About

By presenting both addition and subtraction problems as well as varying which number is targeted, students are required to reason out each problem. There is no simple pattern to follow so ask students to explain how they approach the different puzzles.

STMath.

Copyright © 2017 MIND Research Institute. All rights reserved.



Addition and Subtraction Situations with Unknowns 8