Probing Questions

- What do you need to do if the number at the top doesn't show up on the number line?
- What does the magnifying glass do?
- How do you know whether to select the target or the magnifying glass?

What Concepts are Being Developed?

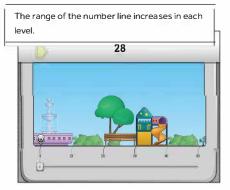
The animation provides a visual proof supporting the strategy of looking at the tens place first and then finding the ones place within the correct decade.

Emphasize the Connection

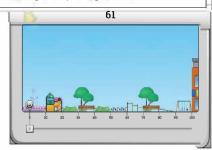
This strategy isn't found only in math. When looking up a word in the dictionary, you look in the section that has the first letter and then continue the strategy. In science, animals are identified by increasingly specific Latin names.

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Use the scrub bar to slow down the animation showing the expanding number line.



The Number Line - 2

90 100

Number Line to 100

Grade 2

占 5 levels

Probing Questions

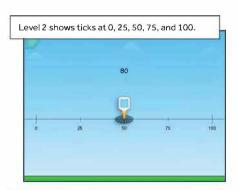
- What moves on the screen? Where do you need to click?
- How can you use the numbers that are shown to help you know where to place the glue?

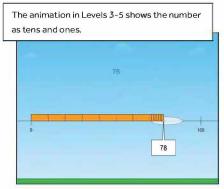
Supporting Struggling Students

Help students who are struggling to break the problems down into smaller steps. Have them identify the tens place and where that number might be on the number line: Closer to 0? Closer to the middle? Closer to the end?

What's Important Here?

Students who have a strong number sense will be better estimators. For example, they'll know that 93 + 82 will be closer to 200 than 100 which is an essential skill that research says many students do not have.





Grade 2

占 5 levels

Probing Questions

- How are you deciding what number to enter?
- How are you using the feedback if your answer is incorrect?
- · What do the black dots mean?

Classroom Connection

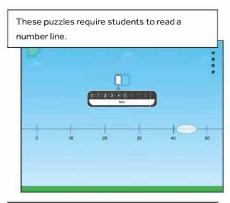
Using this game with the entire class will allow students to share strategies for selecting their first guess and then using the feedback to make another estimate. Challenge students to use as few guesses as possible.

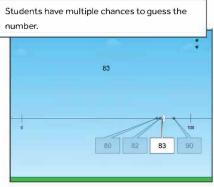
Uncover the Thinking

Discuss with students how an incorrect answer affects their next guess. For example, was their guess too high? too low? How do they know? What is a reasonable next guess?

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The Number Line - 4