



Regrouping Dual Mode Addition

Grade 3

Addition and Subtraction with Regrouping

9 levels

Probing Questions

- Which step do you need to do first?
- How do you know which digit to select?
- What does the animation do when you have to regroup?

Use the Scrub Bar to Stop the Animation

After you click the regroup button, stop the animation and discuss how it reflects what is done in the algorithm. Compare the visual model with the algorithm to illustrate the regrouping process.

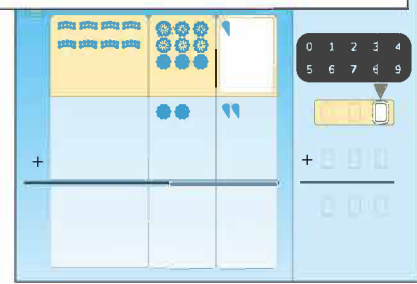
What Concepts Are Being Developed?

Connecting the visual and symbolic is a vital step in helping students develop a strong conceptual understanding. In this game, students see the two models side by side and can connect the elements in the visual model (such as "make a flower from 10 petals") to the algorithm ("carry the 1").

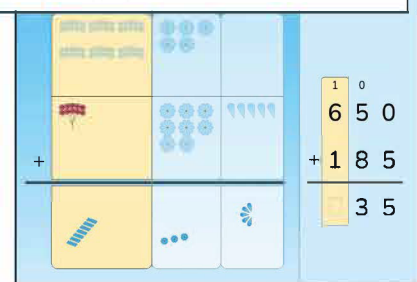
ST Math

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Students start by building the problem addition only in Level 1.



Use the auto pause on the scrub bar to compare the two models.



Addition and Subtraction with Regrouping - 2



Regrouping Dual Mode Subtraction

Grade 3

Addition and Subtraction with Regrouping

4 levels

Probing Questions

- Which step do you need to do first?
- How do you know which digit to select?
- What does the animation do when you have to regroup?

Use the Scrub Bar to Stop the Animation

After you click the regroup button, stop the animation and discuss how it reflects what is done in the algorithm. Compare the visual model with the algorithm to illustrate the regrouping process.

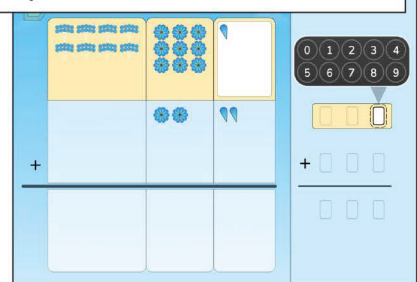
What Concepts Are Being Developed?

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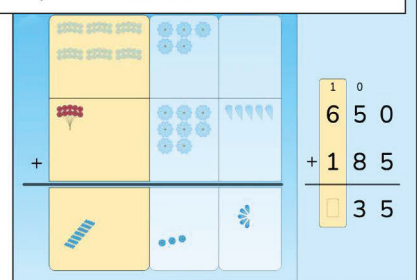
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Students start by building the problem addition only in Level 1.



Use the auto pause on the scrub bar to compare the two models.



Addition and Subtraction with Regrouping - 4