

Number Story Question Stems-Parts Equal Total

Teacher Note: The question stems below can be used in any lesson that involves word problems describing the process of composing 2 or more parts to form a total or decomposing a total into two or more parts.

Example Number Story- There are 29 students on the playground. Then 18 more students showed up. How many students are there now?

What is the math main idea?

- *The story describes 2 parts coming together to form or compose a total-the 29 students on the playground and the 18 more students who showed up.*

What is the thing or unit we are counting?

- *We are counting students.*

What is the story setting?

- *The story takes place on the playground.*

Is there an action in the number story?

- *The action is more students **showing up**.*

What Structure of Equality is helpful when a number story, like this one, describes composing two or more parts to form a total?

- *When a number story describes composing two parts to form a total, we can use a Parts Equal Total SoE.*

How many parts are in the story? How many parts bars do we need to include in our Parts Equal Total Structure of Equality? *Two parts bars are needed.*

What 2 things do we need to include when we draw the part bars?

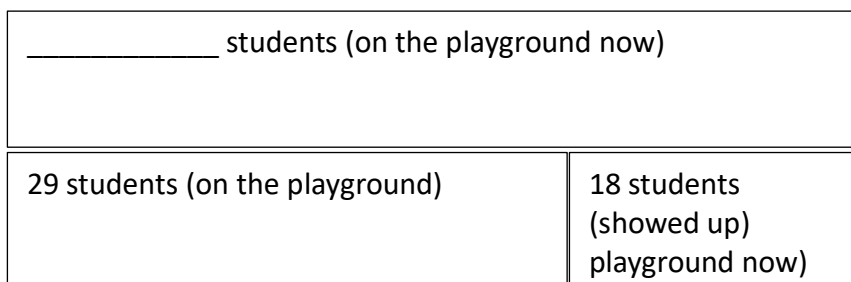
- *All Structures of Equality have Values and Labels (unit).*

What are the parts bars' values and labels?

- *The values and labels are 29 students (on the playground) and 18 students (more showed up).*

What do we need to include when we draw the total bar and how does the total bar need to look compared to the two parts bars?

- *The total bar needs an unknown value and the label students (on the playground now).*
- *The two parts bars need to line up with the total bar (see below).*



This story comes from the NC 2nd Grade Unpacking Document. In this document this story situation is referred to as *add to, result unknown*.
<https://tools4ncteachers.com/resources/district-leaders/documents/2017-2nd-unpacking-view.pdf>

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