



Storytelling and Math

using storymats

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making story mats













wet your hands!

















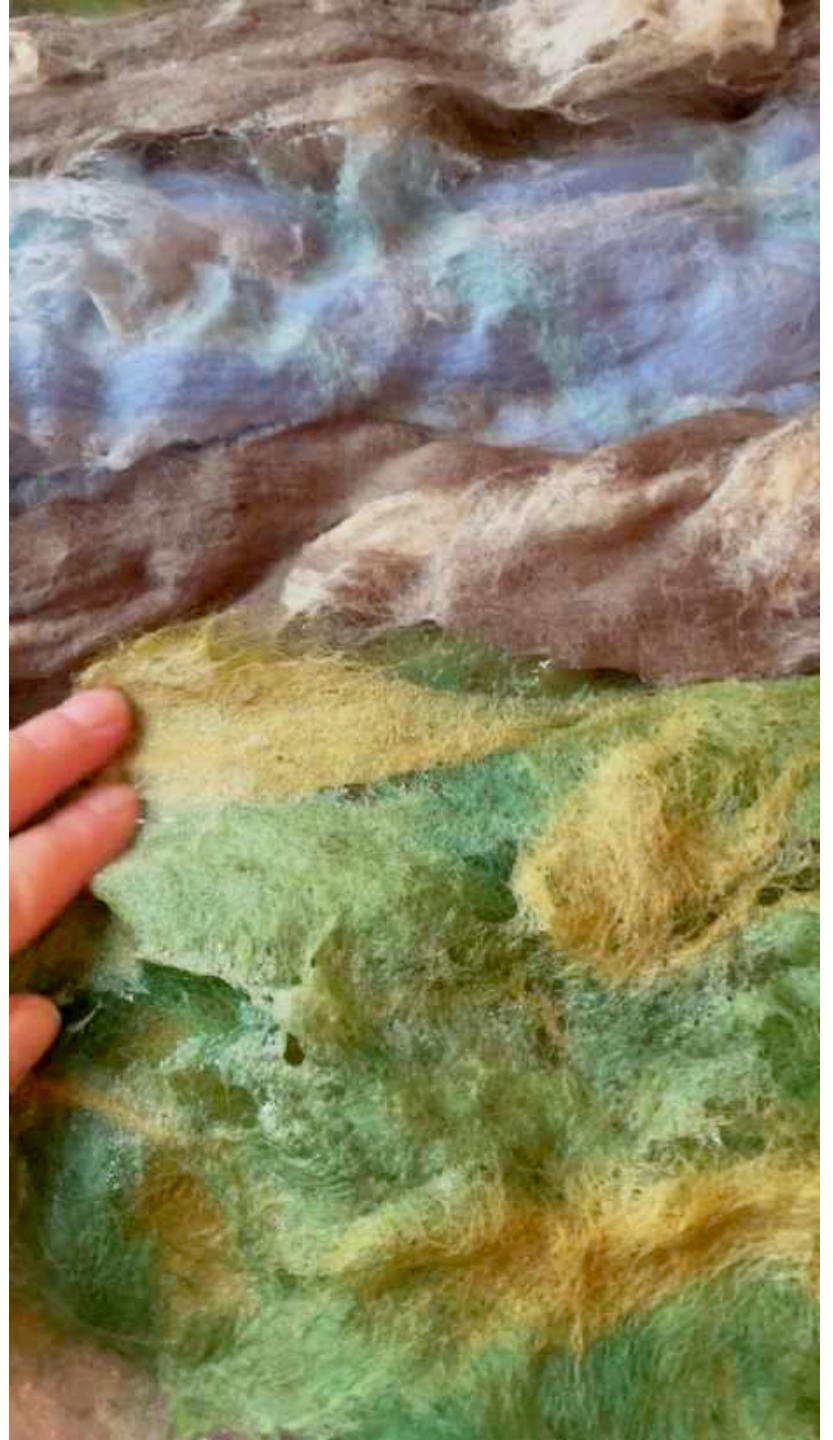






















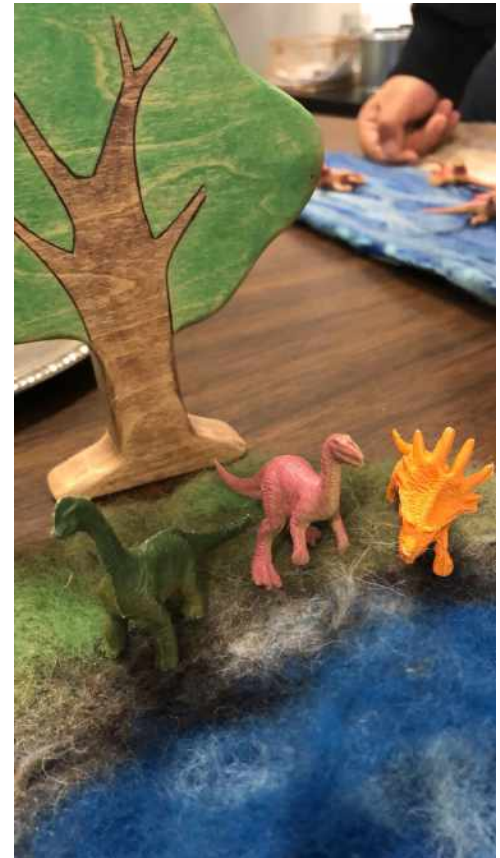




using storymats for math storytelling

Making Connections

- ▶ math to self
- ▶ math to world
- ▶ math to math



starting points for math stories

- ▶ puppets – playful math such as give and take, counting, sharing, build and change
- ▶ role-play – problems from everyday life such as setting the table
- ▶ small world play – using characters and setting to create and play out math stories
- ▶ counting collections
- ▶ problem structure or concept
- ▶ children's books –collections of concept books and stories

Storytelling

- ▶ *How does storytelling build engagement, and develop language and meaning making?*
- ▶ *How does storytelling support students' connecting mathematics and their identity, culture and community and the world around them?*

What types of number stories can we tell?

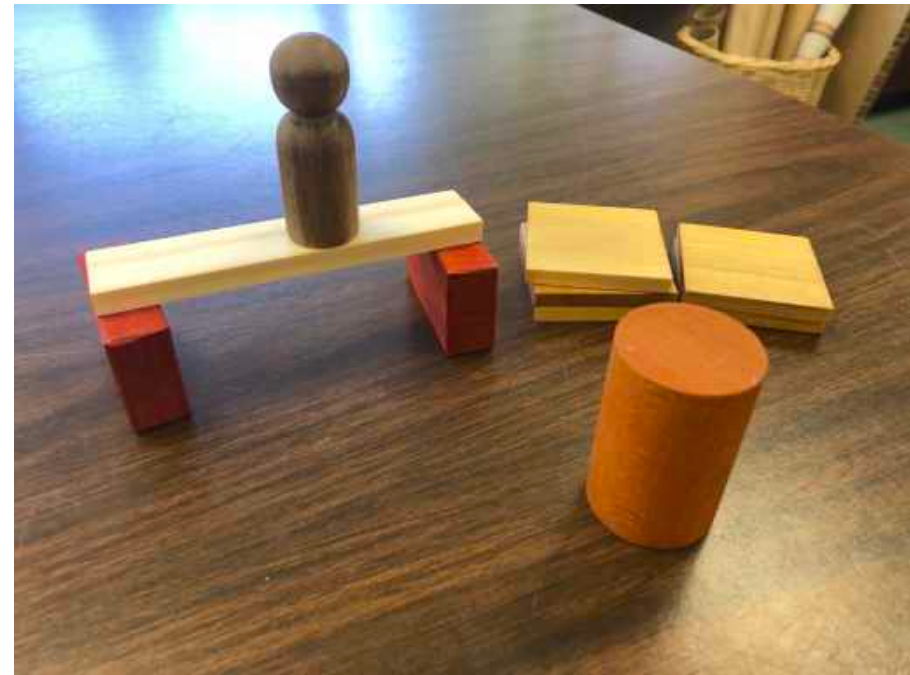
- ▶ Counting
- ▶ Combining
- ▶ Removing
- ▶ Comparing
- ▶ Missing part
- ▶ Fair Sharing
- ▶ Grouping




playing with positional language:

- over
- under
- on
- up
- down
- around
- through
- beside
- between
- behind
- near
- far
- next to
- in front of
- right, left
- north, south, east, west

Spatial Reasoning and Storytelling





MacKay (2021) offers, “The words we choose build up concepts that hold possibilities and encouragement to imagine relationships with materials the children may not consider before,” (Story Workshop, p. 85).





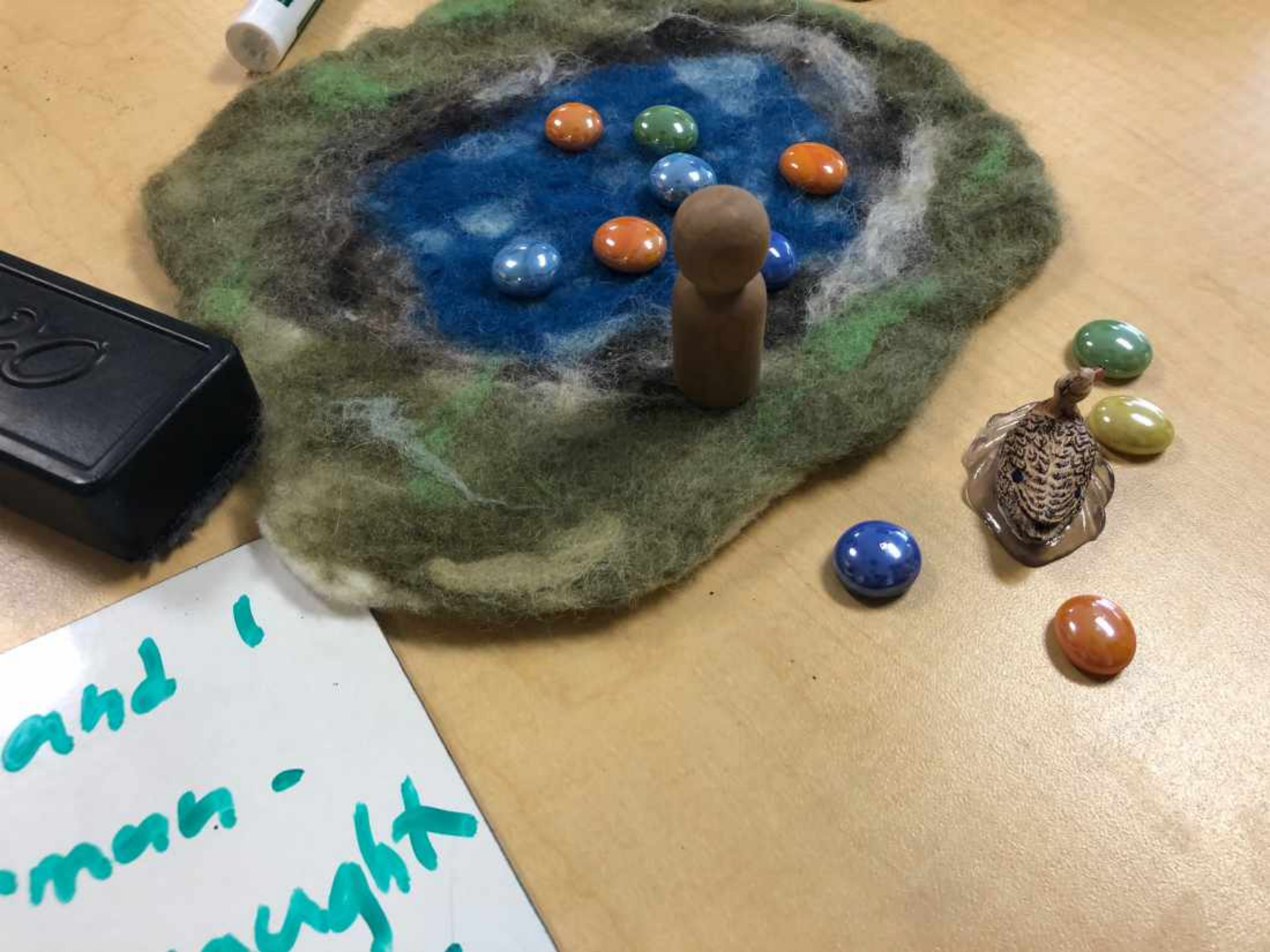
$$5 - 2 = \underline{\quad}$$





Ahmed and
soccer with
and then Ahmed
soccer ball in to
can. How many
are there now?
⊕ ⊕ - ⊕ ⊕ ⊕ ⊕ = A





and
man
ought

What stories live
in these equations?

12

$$15 - \quad = 9$$

















thank you

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