

Transcript: One-Eighth of Twenty-Four

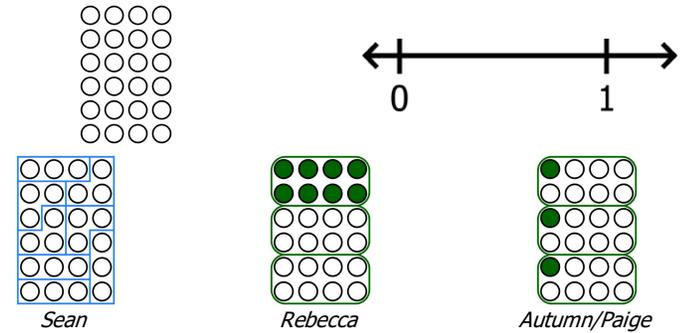
Elementary Mathematics Laboratory for incoming fifth graders
Park City Mathematics Institute
Tuesday, July 11, 2006

Seating Arrangement

Jessica								Maddie
Ally								Cozy
Sabrina								Holly
Paige								Luke
Tori								Arthur
Brianna								Britney
David	Vinnie	Rebecca	Sarah	Ben	Trevor	Michael	Sean	Autumn

Problem:

Teacher: ... With the number line and the group of circles, I want you to show what one-eighth means in each of those.



- 1 Teacher: Who else got three for an answer? Sarah?
- 2 Sarah: Sean.
- 3 Teacher: Who?
- 4 Sarah: Sean.
- 5 Teacher: Sean. Now, where's Sean's drawing?
- 6 Sarah: Down there.
- 7 Teacher: Right there. So, they both arrived at the answer of
- 8 three but in a different way. And what this- Between
- 9 Paige and Autumn together is a little bit harder to
- 10 see. But, if you take one-eighth of one equal part
- 11 and then one-eighth of the next equal part and one-
- 12 eighth of the next equal part, you've taken one-eighth
- 13 of the whole thing. This (*Sean's drawing*) is probably
- 14 the easiest way to see it because he took the twenty-
- 15 four and made eight equal parts out of it. But that's
- 16 very interesting, these different things that people
- 17 tried to do.