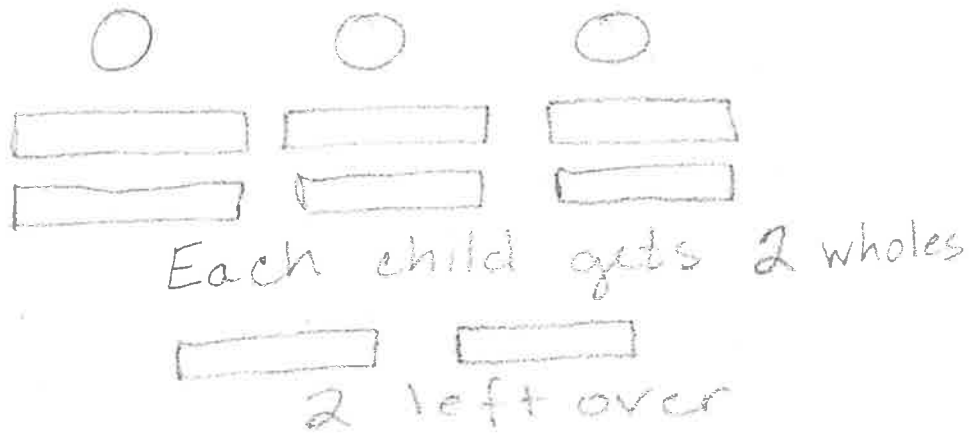
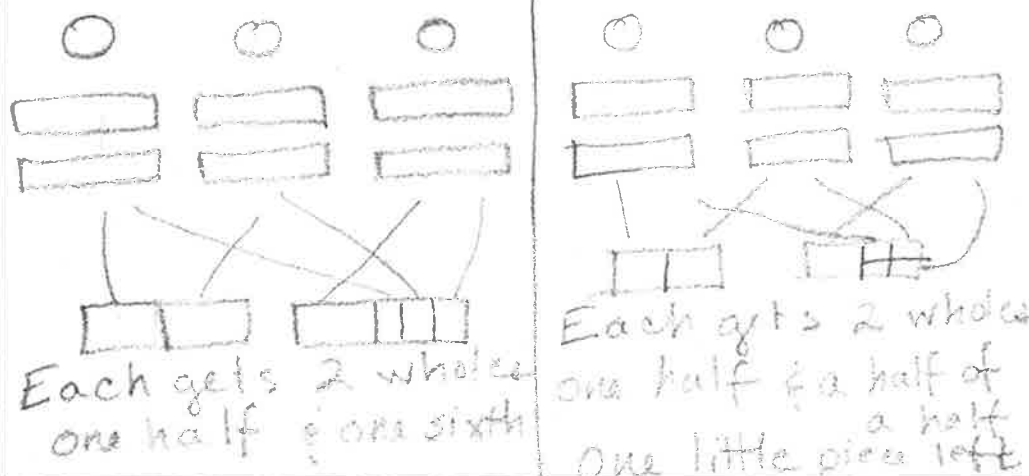
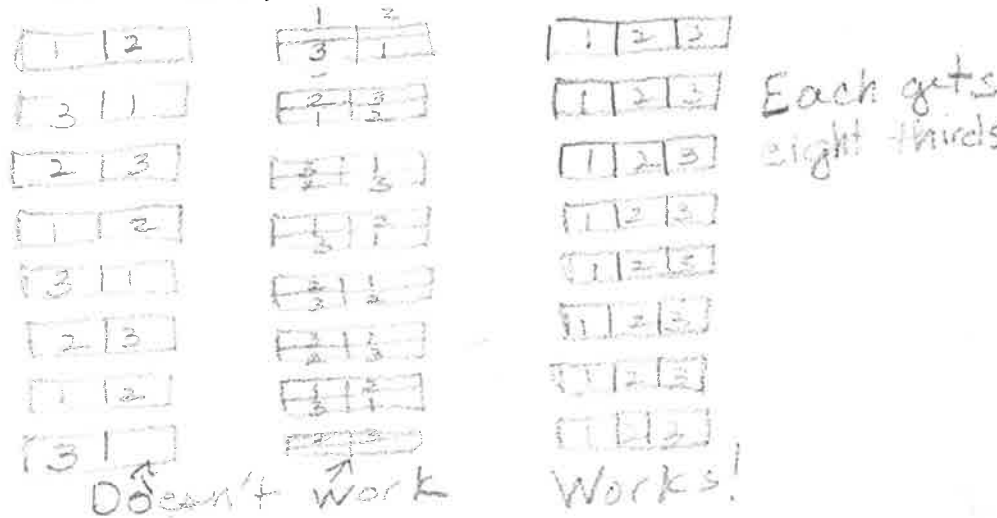
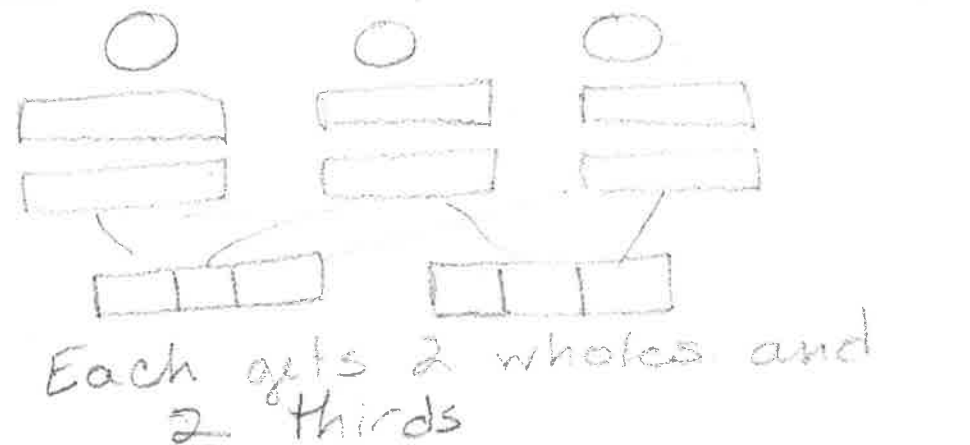



What kinds of strategies might children use for 3 children share 8 burritos?

Non-Anticipatory	<p><b>Whole Items Only</b> – Distributes whole items only without any partitioning</p>  <p>Each child gets 2 wholes 2 left over</p>	<p><b>Repeated Halving</b> – Begins partitioning by cutting in half. Then cuts in half again. May pass out wholes to start with. May finish by taking the number of sharers into account</p>  <p>Each gets 2 wholes one half &amp; one sixth one little piece left</p>	<p><b>Trial &amp; Error</b> – works through a small set of familiar fractions to determine which one results in partitioning items exclusively</p>  <p>Each gets 2 wholes 2 thirds</p>
Emergent Anticipatory	<p><b>Whole items then each gets a piece of each (drawing)</b> - Distributes wholes and then partitions remaining items into exactly as many parts as there are sharers</p>  <p>Each gets 2 wholes and 2 thirds</p>	<p><b>Each sharer gets a piece of each item (drawing)</b> – All wholes are partitioned into exactly as many parts as there are sharers</p>  <p>Each gets 8 thirds</p>	<p><b>Sharing Groups of items</b> – Use multiplication facts or other number relationships to partition a group of items into exactly as many parts as there are sharers</p> <p>Does not work for these #'s</p>
Anticipatory	<p><b>Whole items then each gets a piece of each (abstract)</b> – Uses multiplication to determine how many whole items each sharer could get. Imagines partitioning each of the remaining items by the number of sharers and multiplies by the number items.</p> <p><math>2 \times 3 = 6</math> Each child gets 2. 2 left over Each left over divided into 3 equal parts (thirds) Each child get 2 of them. (two-thirds) 2 wholes 2 thirds</p>	<p><b>Each sharer gets a piece of each item (abstract)</b> – Imagines partitioning each whole into exactly as many parts as there are sharers and then multiplies the size of the part by the number of items to be shared.</p> <p>8 wholes - each cut into three equal parts Each child gets one third from each whole. 8 thirds to each child</p>	<p><b>Solve simpler problem (abstract)<sup>1</sup></b> – Reduces sharing situation by splitting number of items and number of sharers by a factor. (12 people share 10 things becomes 6 people share 5 things). Completes new problem using one of the other strategies.</p> <p>Does not work for these #'s</p>