## What kinds of strategies might children use for an equal sharing problem?

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	Whole Items Only – Distributes whole items only without any partitioning	<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	<b>Trial &amp; Error</b> – works through a small set of familiar fractions to determine which one results in partitioning items exclusively
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Non-Anticipatory			
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atory	Whole items then each gets a piece of each (drawing) - Distributes wholes and then partitions remaining items into exactly as many parts as there are sharers	Each sharer gets a piece of each item (drawing) – All wholes are partitioned into exactly as many parts as there are sharers	Sharing Groups of items – Use multiplication facts or other number relationships to partition a group of items into exactly as many parts as there are sharers
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	Whole items then each gets a piece of each (abstract) – 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	<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.	<b>Solve simpler problem (abstract)</b> <sup>1</sup> – 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
<b>^</b>	multiplies by the number items.		of the other strategies.
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