Figure 2.14

First-Grade Higher-Level-Cognitive-Demand Mathematical Task for Reasoning

Directions: Respond to the following questions to model reasoning that first-grade students might exhibit in a higher-level-cognitive-demand mathematical task.

A full box of crayons has 18 crayons.

1. If there are 9 crayons in the first row in the box, how many crayons are in the second row of the box?

2. Six of the crayons are broken. How many crayons are not broken?

3. If you put the crayons in groups of two, how many groups of two will you have?

4. If you put the crayons in groups of three, how many groups of three will you have?

5. Can you make other groups with each group having the same number of crayons? If so, what are the groups?

6. Write the number name by counting each crayon by ones. Here is how you start.

   One

   Two

   Three

   Four

7. If you lost seven of the crayons, how many crayons would still be in the box?

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