<u>Reasoning and Problem Solving</u> <u>Step 1: Part Whole Model</u>

National Curriculum Objectives:

Mathematics Year 1: (1C1) <u>Represent and use number bonds and related subtraction</u> <u>facts within 20</u> Mathematics Year 1: (1C2b) <u>Read, write and interpret mathematical statements</u> <u>involving addition (+), subtraction (-) and equals (=) signs</u>

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Identify the odd one out of three representations; totals within 5. Expected Identify the odd one out of three representations; totals within 10. Greater Depth Identify the odd one out of three representations; totals within 20.

Questions 2, 5 and 8 (Problem Solving)

Developing Read a simple word problem and identify the whole number and parts totalling 5.

Expected Read a simple word problem and identify the whole number and parts totalling 10.

Greater Depth Read a simple word problem and identify the whole number and parts totalling 20.

Questions 3, 6 and 9 (Problem Solving)

Developing Sort the images and draw a part whole model to show how they have been sorted, up to a total of 5 objects.

Expected Sort the images and draw a part whole model to show how they have been sorted, up to a total of 10 objects.

Greater Depth Sort the images and draw a part whole model to show how they have been sorted, up to a total of 20 objects.

More <u>Year 1 Addition and Subtraction</u> resources.

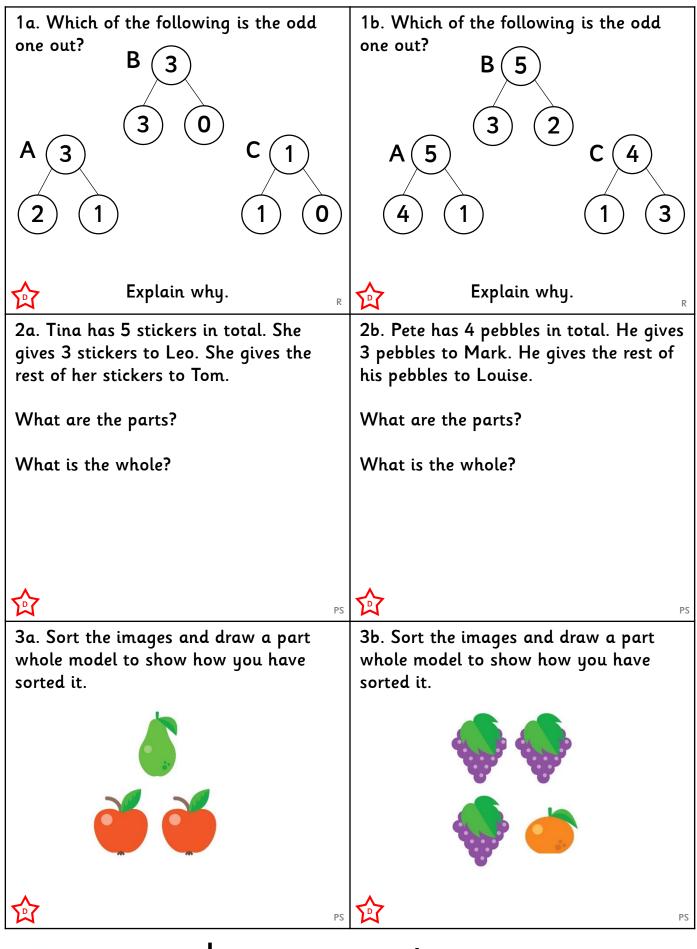
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Reasoning and Problem Solving - Part Whole Model - Teaching Information

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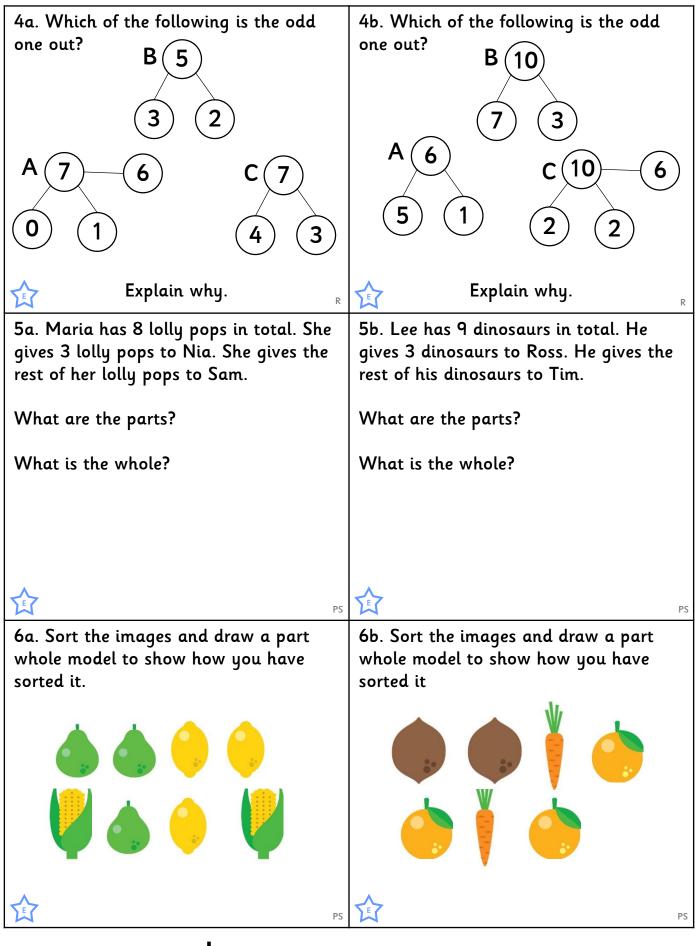


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Reasoning and Problem Solving - Part Whole Model

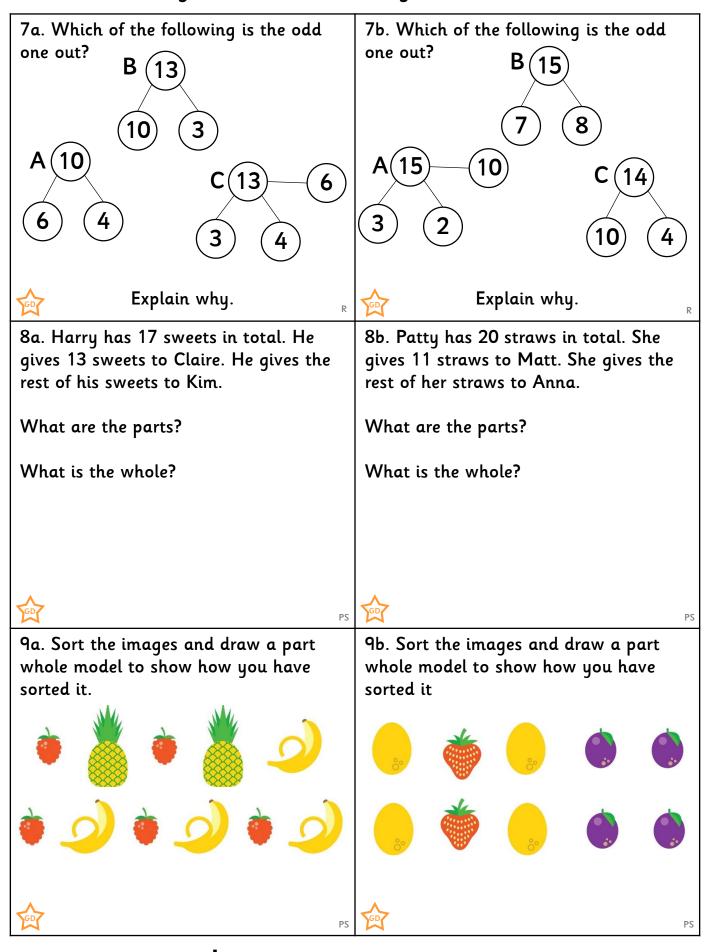


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Reasoning and Problem Solving - Part Whole Model - Year 1 Expected

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Reasoning and Problem Solving - Part Whole Model - Year 1 Greater Depth

Developing

- 1a. C is the odd one out because it represents 1. A and B represent 3.
- 1b. C is the odd one out because it represents 4. A and B represent 5.
- 2a. The whole is 5, the parts are 3 and 2.
- 2b. The whole is 4, the parts are 3 and 1.
- **3a.** 2 apples and 1 pear. The whole is 3, the parts are 2 and 1.
- **3b.** 3 grapes and 1 orange. The whole is 4, the parts are 3 and 1.

Expected

4a. B is the odd one out because it represents 5. A and C represent 7.

- 4b. A is the odd one out because it represents 6. B and C represent 10.
- 5a. The whole is 8, the parts are 3 and 5.
- 5b. The whole is 9, the parts are 3 and 6.

6a. Various answers, for example: 2 corns, 3 pears and 3 lemons. The whole is 8, the parts are 2, 3 and 3.

6b. Various answers, for example: 2 coconuts, 2 carrots and 3 oranges. The whole is 7, the parts are 2, 2 and 3.

<u>Greater Depth</u>

7a. A is the odd one out because it represents 10. B and C represent 13.

- 7b. C is the odd one out because it represents 14. A and B represent 15.
- 8a. The whole is 17, the parts are 13 and 4.
- 8b. The whole is 20, the parts are 11 and 9.

9a. Various answers, for example: 5 raspberries, 2 pineapples and 4 bananas. The whole is 11, the parts are 5, 2 and 4.

9b. Various answers, for example: 4 melons, 2 strawberries and 4 grapes. The whole is 10, the parts are 4, 2 and 4.



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Reasoning and Problem Solving – Part Whole Model ANSWERS