<u>Reasoning and Problem Solving</u> <u>Step 4: Subtraction – Not Crossing 10</u>

National Curriculum Objectives:

Mathematics Year 1: (1N4) <u>Identify and represent numbers using objects and pictorial</u> representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least

Mathematics Year 1: (1N2c) <u>Read and write numbers from 1 to 20 in numerals and words</u> Mathematics Year 1: (1C4) <u>Solve one-step problems that involve addition and subtraction</u>, <u>using concrete objects and pictorial representations</u>, and missing number problems such as 7 = -9

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Identify if the calculation is correct when using a number line (numbers within 20). Numerals only. Pictorial support for all questions.

Expected Identify if the calculation is correct when using a number line (numbers within 20). Numerals only. Some pictorial support.

Greater Depth Identify if the calculation is correct when using a number line (within 20). Numerals and words. Limited pictorial support. Questions include some two-step problems.

Questions 2, 5 and 8 (Problem Solving)

Developing Write a subtraction calculation to match the image (numbers within 20). Numerals only. Pictorial support for all questions.

Expected Write a subtraction calculation to match the image (numbers within 20). Numerals only. Some pictorial support.

Greater Depth Write a subtraction calculation to match the image (within 20). Numerals and words. Limited pictorial support. Questions include some two-step problems.

Questions 3, 6 and 9 (Problem Solving)

Developing Choose the correct digit cards to complete the number sentence (numbers within 20). Numerals only. Pictorial support for all questions.

Expected Choose the correct digit cards to complete the number sentence (numbers within 20). Numerals only. Some pictorial support.

Greater Depth Choose the correct digit cards to complete the number sentence when subtracting two numbers (numbers within 20). Numerals and words. Limited pictorial support. Questions include some two-step problems.

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

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Reasoning and Problem Solving – Subtraction – Not Crossing 10 – Teaching Information

Subtraction – Not Crossing 10

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Reasoning and Problem Solving – Subtraction – Not Crossing 10 – Year 1 Developing

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Reasoning and Problem Solving – Subtraction – Not Crossing 10 – Year 1 Expected

Subtraction – Not Crossing 10



Reasoning and Problem Solving – Subtraction – Not Crossing 10 – Year 1 Greater Depth

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Developing

1a. Yes; the calculation matches the
number line.2a. 18 - 2 = 163a. $\underline{12} - \underline{1} = 11$

Expected

4a. No; Rose has subtracted 3, not 4. 5a. 12 – 2 = 10 6a. <u>17</u> – <u>5</u> = 12

<u>Greater Depth</u> 7a. Yes; the calculation matches the number line. 8a. 20 - 1 - 2 = 179a. $17 - \underline{five} - 2 = \underline{ten}$

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Developing 1b. No; Mo has subtracted 3, not 4. 2b. 17 – 3 = 14 3b. <u>11</u> – 1 = <u>10</u>

Expected 4b. Yes; the calculation matches the number line. 5b. 13 - 3 = 106b. $\underline{15} - 3 = \underline{12}$

<u>Greater Depth</u> 7b. No; Kip has only subtracted 3, not the extra 1. 8b. 18 – 4 – 1 = 13 9b. 16 – <u>one</u> – 4 = <u>11</u>



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