### Reasoning and Problem Solving Step 2: Make Equal Groups-Grouping

### National Curriculum Objectives:

Mathematics Year 2: (2C6) <u>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</u>

Mathematics Year 2: (2C7) <u>Calculate mathematical statements for multiplication and</u> division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs

Mathematics Year 2: (2C8) <u>Solve problems involving multiplication and division, using</u> materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts

Mathematics Year 2: (2C9b) <u>Show that multiplication of two numbers can be done in any</u> order (commutative) and division of one number by another cannot

### Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Explain which numbers can be grouped into equal groups of 2s and 5s (up to 5 groups); numerals only.

Expected Explain which numbers can be grouped into equal groups of 2s, 5s and 10s (up to 12 groups); numerals and words.

Greater Depth Explain which numbers can be grouped into equal groups of 2s, 3s, 5s and or 10s (up to 12 groups).

Questions 2, 5 and 8 (Problem Solving)

Developing Use clues when grouping equally in 2s and 5s (up to 5 groups) to find the missing number; numerals only

Expected Use clues when grouping equally in 2s, 5s and 10s (up to 12 groups) to find the missing number; numerals and words.

Greater Depth Use clues when grouping equally in 2s, 3s, 5s and 10s (up to 12 groups) to find the missing number; numerals and words; introducing remainders.

Questions 3, 6 and 9 (Reasoning)

**Developing** Explain which statement is correct when grouping equally in 2s and 5s (up to 5 groups); numerals only.

Expected Explain which statement is correct when grouping equally in 2s, 5s and 10s (up to 12 groups); numerals and words.

Greater Depth Explain which statement(s) are correct when grouping equally in 2s, 3s, 5s and 10s (up to 12 groups); numerals and words.

## More resources which follow the same small steps as White Rose.

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Reasoning and Problem Solving – Making Equal Groups - Grouping – Teaching Information



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Reasoning and Problem Solving – Making Equal Groups - Grouping – Year 2 Expected



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Reasoning and Problem Solving – Making Equal Groups - Grouping – Year 2 Greater Depth

#### Reasoning and Problem Solving Make Equal Groups-Grouping

#### Developing

1a. 2, 6, 8 and 10 can be put in equal groups of 2. They are all multiplies of 2.
2a. 25 footballs.
3a. Mig is correct because 15 ÷ 5 = 3.

Expected 4a. 35, 60, 20 and 15. All the numbers are multiples of 5. 5a. 100 pencils. 6a. Toby is correct because 24 ÷ 12 = 2

Greater Depth 7a. 21, 12, 18, 9 and 15. All the numbers are multiples of 3. 8a. 63 bananas. 9a. Ella and Deeba are correct because  $60 \div 6 = 10$  and  $60 \div 12 = 5$ .

#### Reasoning and Problem Solving Make Equal Groups-Grouping

Developing 1b. 5, 10, 15 and 20. All the numbers are multiples of 5. 2b. 10 sweets. 3b. Ben is correct because 8 ÷ 4 = 2

Expected 4b. 50, 30, 20 and 10. All the numbers are multiples of 10. . 5b. 40 seeds. 6b. Beth is correct because 16 ÷ 8 = 2

<u>Greater Depth</u> 7b. 60, 30, 20 and 40 can be put into equal groups of 5 and 10. All the numbers have zero in the ones column. They are all multiples of ten. 8b. 35 biscuits. 9b. Jacob and Max are correct because 20 ÷ 4 = 5 and 20 ÷10 = 2.



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