<u>Reasoning and Problem Solving</u> <u>Step 2: Make Equal Groups – Grouping</u>

National Curriculum Objectives:

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

Mathematics Year 2: (2C7) <u>Calculate mathematical statements for multiplication and division</u> 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 materials,</u> 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 order</u> (commutative) and division of one number by another cannot

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Find which numbers can be put into equal groups of a given size and explain what they have in common. Pictorial support is aligned to reflect group sizes and all images are the same size; one to one correspondence; numerals only.

Expected Find which numbers can be put into equal groups of a given size and explain what they have in common. Pictorial support is not aligned and/or is a mix of sizes; one to one correspondence; numerals only.

Greater Depth Find which numbers can be put into equal groups of a given size and explain what they have in common. Includes no/children creating their own pictorial support; numerals and words.

Questions 2, 5 and 8 (Problem Solving)

Developing Find the largest and smallest possible number of equal groups that can be made from an amount. Differentiation the same as question 1.

Expected Find the largest and smallest possible number of equal groups that can be made from an amount. Differentiation the same as question 4.

Greater Depth Find the largest and smallest possible number of equal groups that can be made from an amount, then list other possibilities. Differentiation the same as question 7.

Questions 3, 6 and 9 (Reasoning)

Developing Explain which of two statements is correct. Differentiation the same as question 1. Expected Explain which of two statements is correct. Differentiation the same as question 4. Greater Depth Explain which two of three statements are correct. Differentiation the same as question 7.

More <u>Year 2 Multiplication and Division</u> resources.

Did you like this resource? Don't forget to <u>review</u> it on our website.

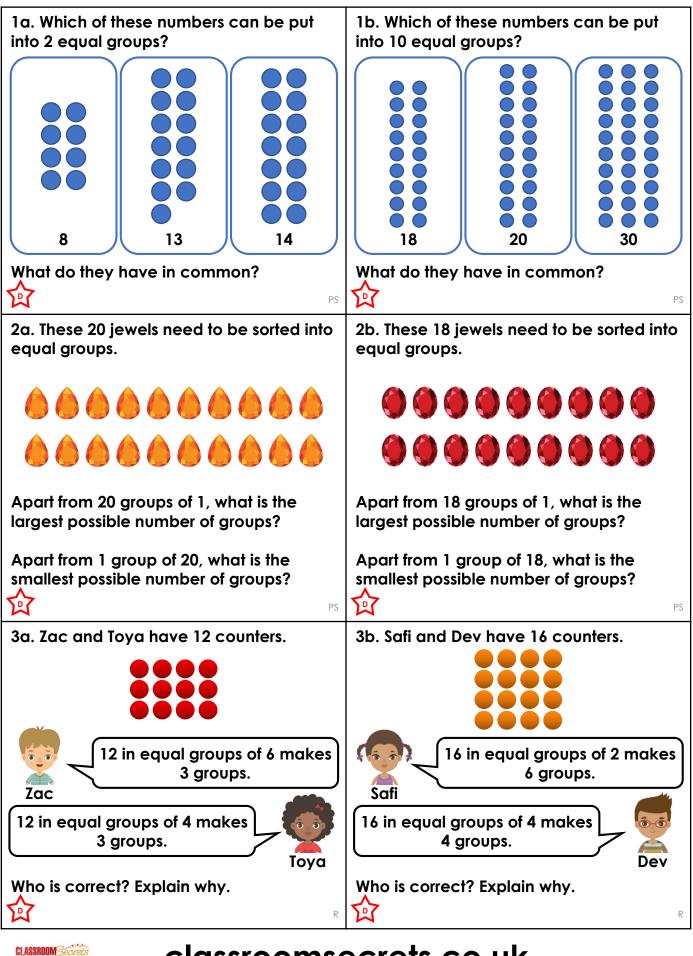


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Reasoning and Problem Solving – Make Equal Groups – Grouping – Teaching Information

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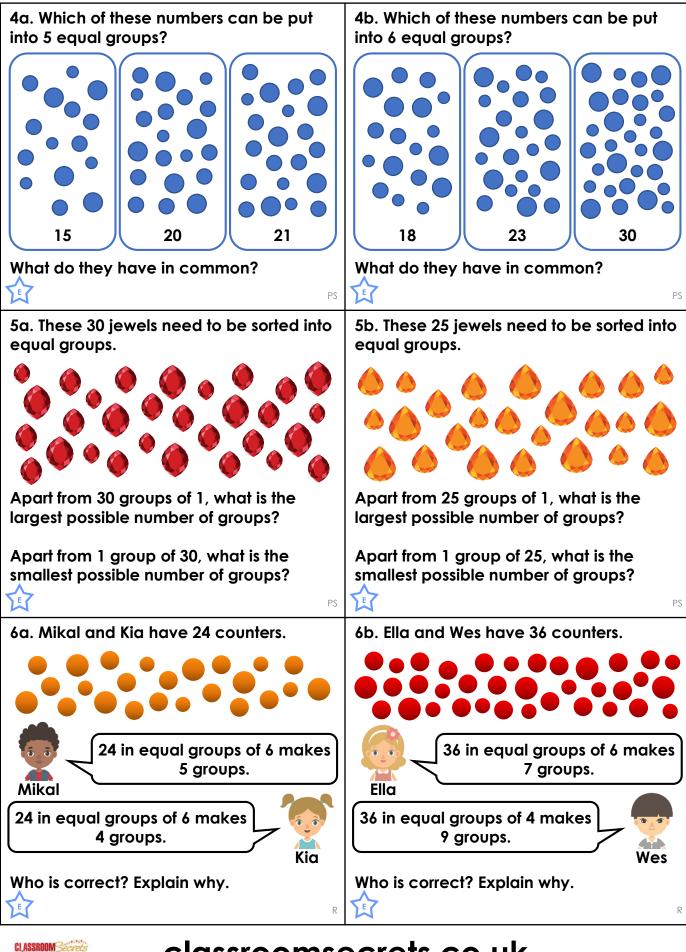
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Reasoning and Problem Solving – Make Equal Groups – Grouping – Year 2 Developing

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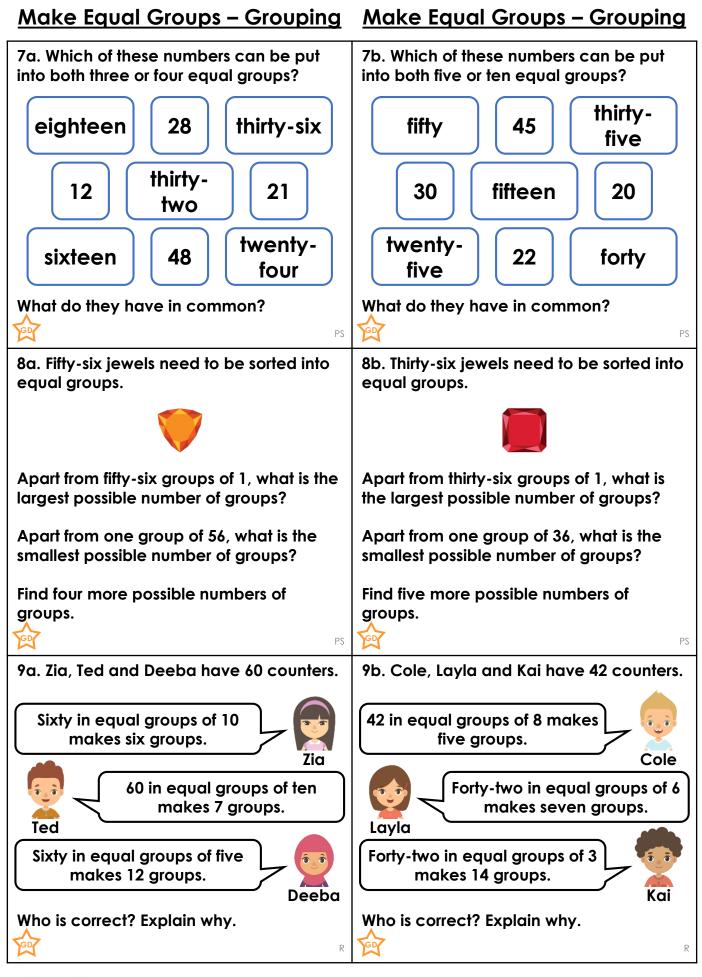
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Reasoning and Problem Solving – Make Equal Groups – Grouping – Year 2 Expected



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

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<u>Reasoning and Problem Solving</u> <u>Make Equal Groups – Grouping</u>

Developing

1a. 8 and 14. The numbers are both multiples of 2/in the 2 times table.
2a. Largest: 10. Smallest: 2.
3a. Toya is correct because 12 ÷ 3 = 4.

Expected

4a. 15 and 20. The numbers are both multiples of 5/in the 5 times table.
5a. Largest: 15. Smallest: 2.
6a. Kia is correct because 24 ÷ 4 = 6.

Greater Depth

7a. thirty-six, 12, 48 and twenty-four. All the numbers are multiples of 3 and 4/are in the 3 and 4 times tables.
8a. Largest: 28. Smallest: 2. Other possible numbers: 4, 7, 8, 14.
9a. Zia and Deeba are correct because 60 ÷ 6 = 10 and 60 ÷ 12 = 5.

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Developing

1b. 20 and 30. The numbers are both multiples of 10/in the 10 times table.
2b. Largest: 9. Smallest: 2.
3b. Dev is correct because 16 ÷ 4 = 4.

Expected

4b. 18 and 30. The numbers are both multiples of 3 and 6/in the 3 and 6 times table.

5b. Largest: 5. Smallest: 5.

6b. Wes is correct because $36 \div 9 = 4$.

<u>Greater Depth</u>

7b. fifty, 30, 20 and forty. All the numbers are multiples of 5 and 10/are in the 5 and 10 times tables.

8b. Largest: 18. Smallest: 2. Other possible numbers: 3, 4, 6, 9, 12.

9b. Layla and Kai are correct because 42 ÷ 7 = 6 and 42 ÷ 14 = 3.



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