Reasoning and Problem Solving Step 1: Recognise Equal Groups

National Curriculum Objectives:

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

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Identify which groups are equal. Groups of up to 5 images, where each image represents 1.

Expected Identify which groups are equal. Groups of up to 10 images, where each image represents 1.

Greater Depth Identify which groups are equal. Groups of images where some images represent more than 1.

Questions 2, 5 and 8 (Reasoning)

Developing Explain the mistake, using knowledge of recognising equal groups. Groups of up to 5 images, where each image represents 1.

Expected Explain the mistake, using knowledge of recognising equal groups. Groups of up to 10 images, where each image represents 1.

Greater Depth Explain the mistake, using knowledge of recognising equal groups. Groups of images where some images represent more than 1.

Questions 3, 6 and 9 (Problem Solving)

Developing Identify which group is not equal to the others. Groups of up to 5 images, where each image represents 1 value.

Expected Identify which group is not equal to the others. Groups of up to 10 images, where each image represents 1 value.

Greater Depth Identify which group is not equal to the others. Groups of images where multiple images represent the same value.

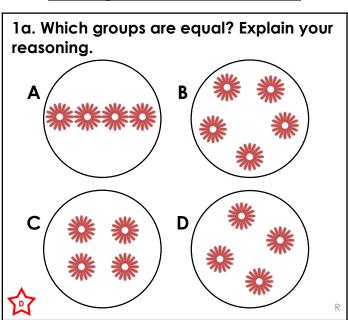
More Year 2 Multiplication and Division resources.

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

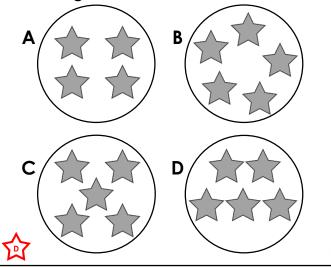


Recognise Equal Groups

Recognise Equal Groups



1b. Which groups are equal? Explain your reasoning.



2a. Olivia says,



I have grouped my teddies into 2 equal groups of 3.

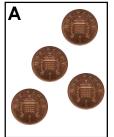


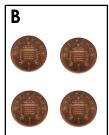
What mistake has she made? Explain your answer.

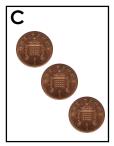


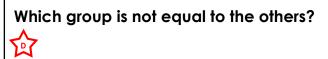
3a. Justin is counting his pocket money.

He is making equal groups that each have the same amount of money.

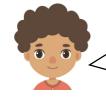








2b. Cassius says,



I have grouped my fish into 3 equal groups of 2.





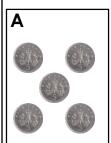


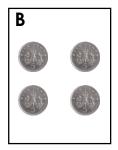
What mistake has he made? Explain your answer.



3b. Nadia is counting her pocket money.

She is making equal groups that each have the same amount of money.







Which group is not equal to the others?

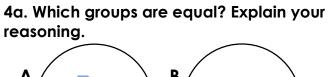


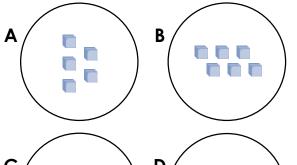


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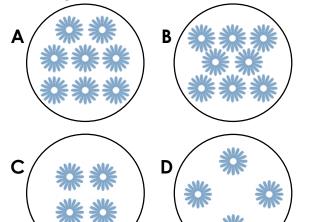
Recognise Equal Groups

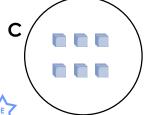
Recognise Equal Groups

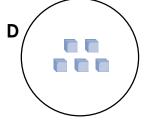




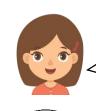
4b. Which groups are equal? Explain your reasoning.







5b. Sophie says,



I have grouped my apples into 3 equal groups of 6.



5a. Jack says,





I have grouped my

sweets into 4 equal

groups of 7.







What mistake has he made? Explain your answer.

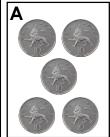


What mistake has she made? Explain your answer.



6a. Milo is counting his pocket money.

He is making equal groups that each have the same amount of money.







6b. Leah is counting her pocket money.

She is making equal groups that each have the same amount of money.











Which group is not equal to the others?



Which group is not equal to the others?

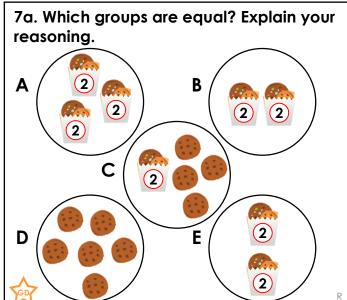




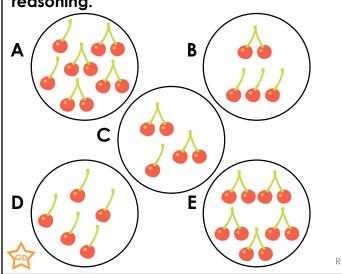
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Recognise Equal Groups

Recognise Equal Groups



7b. Which groups are equal? Explain your reasoning.



8a. Aleema says,



I have grouped my bananas into 3 equal groups of 7.



What mistake has she made? Explain your answer.



8b. Mckenzie says,



I have grouped my biscuits into 2 equal groups of 6.



What mistake has he made? Explain your answer.

9b. Danny is counting his pocket money.

He is making equal groups that each

have the same amount of money.



9a. Sandy is counting her pocket money.

She is making equal groups that each have the same amount of money.









Which group is not equal to the others?







Which group is not equal to the others?







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Reasoning and Problem Solving Recognise Equal Groups

Reasoning and Problem Solving Recognise Equal Groups

<u>Developing</u>

1a. A, C and D are equal as they each have a group of 4. B has a group of 5.2a. Olivia has put 3 teddies in the first box and 2 teddies in the second box. They are not equal groups.

3a. C has 3p and is not equal to A and B, which each have 4p.

Expected

4a. A and D are equal as they each have groups of 5. C and B are equal as they each have groups of 6.

5a. Jack has put 7 sweets in the first, third and fourth jar and 6 sweets in the second jar. They are not equal groups.

6a. A has 50p and is not equal to B and C. which each have 60p.

Greater Depth

7a. A, C and D are equal as they each have groups of 6. B and E are equal as they each have groups of 4.

8a. Aleema has put 7 bananas in the first and second crate and 6 bananas in the third crate. They are not equal groups.

9a. C has 30p and is not equal to A and B, which each have 40p.

<u>Developing</u>

1b. B, C and D are equal as they each have a group of 5. A has a group of 4.2b. Cassius has put 3 fish in the first bowl and 2 fish in the second and third bowls. They are not equal groups.

3b. B has 20p and is not equal to A and C, which each have 25p.

Expected

4b. A and B are equal as they each have groups of 8. C and D are equal as they each have groups of 4.

5b. Sophie has put 6 sweets on the first and second plate and 5 apples on the third plate. They are not equal groups.6b. C has 60p and is not equal to A and B,

Greater Depth

which each have 80p.

7b. A and E are equal as they each have groups of 10. B, C and D are equal as they each have groups of 5.

8b. McKenzie has put 8 biscuits on the first tray and 6 biscuits on the second tray. They are not equal groups.

9b. A has 30p and is not equal to B and C, which each have 25p.

