<u>Reasoning and Problem Solving</u> <u>Step 6: Make Equal Groups (Grouping)</u>

National Curriculum Objectives:

Mathematics Year 1: (1N1b) <u>Count in multiples of twos, fives and tens</u> Mathematics Year 1: (1C8) <u>Solve one-step problems involving multiplication and division</u>, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher

Differentiation:

Questions 1, 4, 7 (Problem Solving)

Developing Use the arrays provided to find another way of making equal groups with the same number with none leftover. Total of no more than 20.

Expected Use the arrays provided to find another way of making equal groups with the same number where there may be some leftover. Total of no more than 30.

Greater Depth Use the arrays provided to find another way of making equal groups with the same number where there will be some leftover. Total of no more than 30.

Questions 2, 5, 8 (Problem Solving)

Developing Use part of an array and a statement about equal groups to find the total number of items. Total of no more than 20.

Expected Use part of an array and a statement about equal groups to find the total possible number of items. Total of no more than 30.

Greater Depth Use part of a group of objects that are not arranged in rows and columns and a statement about equal groups to find the total possible number of items. Total of no more than 30.

Questions 3, 6, 9 (Reasoning)

© Classroom Secrets Limited 2018

Developing Spot the mistake made when grouping items into equal groups of 2, 5 or 10. Items in an array with none leftover. Total of no more than 20.

Expected Decide whether items can be grouped equally in 2s, 5s or 10s when there may be some leftover. Items in an array. Total of no more than 30.

Greater Depth Decide whether items can be grouped equally in 2s, 5s or 10s when there will be some leftover or not enough. Items not arranged in rows and columns. Total of no more than 30.

More Year 1 Multiplication and Division resources.

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

classroomsecrets.co.uk

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

<u>Make Equal Groups (Grouping)</u>	<u> Make Equal Groups (Grouping)</u>
1a. Jason has 10 counters. He can group them into 2 equal groups of 5.	1b. Cora has 20 counters. She can group them into 10 equal groups of 2.
How could he group them to make 5 equal groups?	How could she group them to make 2 equal groups?
He can make 5 equal groups of	She can make 2 equal groups of
PS	PS
2a. Ruby has fewer than 10 bananas. Some are hidden by the splat.	2b. Arthur has fewer than 15 pineapples. Some are hidden by the splat.
I can make equal groups of 2.	I can make equal groups of 5.
How many bananas could she have?	How many pineapples could he have?
3a. Mary has grouped 6 children into equal groups of 2. What mistake has she made?	3b. Frances has grouped 18 apples into equal groups of 5. What mistake has he made?
<image/>	<image/>
classroomsecrets.co.uk	

© Classroom Secrets Limited 2018 Reasoning and Problem Solving – Make Equal Groups (Grouping) – Year 1 Developing



classroomsecrets.co.uk

Reasoning and Problem Solving – Make Equal Groups (Grouping) – Year 1 Expected

© Classroom Secrets Limited 2018



classroomsecrets.co.uk

Reasoning and Problem Solving – Make Equal Groups (Grouping) – Year 1 Greater Depth

© Classroom Secrets Limited 2018

Reasoning and Problem Solving Make Equal Groups (Grouping)

Developing

1a. Jason can make 5 equal groups of 2.
2a. Ruby could have 6 or 8 bananas.
3a. Mary has put the children into 2 groups not into groups of 2. She has made 2 equal groups of 3.

Expected

4a. Ellie can make 10 equal groups of 2.
5a. Callie could have 15 buttons.
6a. Yes he will have enough to make 7 groups of 2 and there will be 1 apple leftover.

<u>Greater Depth</u>

7a. Sarah can make 7 equal groups of 2. There will be 1 leftover.

8a. Chris could have 20 or 30 coconuts.9a. No she will not have enough. She could make 3 equal groups of 5 and there would be 4 leftover.

Reasoning and Problem Solving Make Equal Groups (Grouping)

Developing

1b. Cora can make 2 equal groups of 10.2b. Arthur could have 10 pineapples.3b. Frances has put 6 apples in each group not 5. He has made 3 equal groups of 6.

Expected

4b. Moe can make 4 equal groups of 5 with 4 leftover.

5b. Carl could have 10, 12 or 14 leaves.6b. No she will not have enough. She could make 2 equal groups of 5 and there would be 4 leftover.

Greater Depth

7b. Han can make 5 equal groups of 5. There will be 3 leftover.

8b. Michelle could have 15, 20 or 25 toys.9b. Yes he will have enough to make 2 groups of 10 and there will be 4 leaves leftover.



classroomsecrets.co.uk

Reasoning and Problem Solving – Make Equal Groups (Grouping) ANSWERS