

# Discussion Problems

## Step 1: Make Equal Groups – Sharing

### National Curriculum Objectives:

Mathematics Year 2: (2C6) [Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers](#)

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

Mathematics Year 2: (2C8) [Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts](#)

### About this resource:

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 2 Multiplication and Division](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

# Make Equal Groups – Sharing

1. Amy, John and Cami are selling cookies for a charity event. Match their statements to the possible number of cookies sold to each of their customers.

Amy



I had 10 cookies and I sold them equally to more than 2 customers.

John



I had 24 cookies and I sold them equally to more than 2 but less than 7 customers.

Cami



I had 20 cookies. I gave each customer an equal amount but I forgot how many customers I had.



Explore how many cookies the different customers would receive from each person.

DP

2. Charles and Kendra are guessing each other's number. They have chosen their number from this number grid.

11	12	13	14	15
21	22	23	24	25
31	32	33	34	35



Kendra

My number can be shared into two equal groups and three equal groups.



Charles

My number can be shared into four equal groups.

DP

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Explore how many cookies the different customers would receive from each person.  
**Various answers, for example: Amy could have sold 2 cookies each to 5 people. John could have sold 4 cookies each to 6 people. Cami could have sold 10 cookies each to 2 people.**

DP

2. Charles and Kendra are guessing each other's number. They have chosen their number from this number grid.

11	12	13	14	15
21	22	23	24	25
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Kendra

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Charles

My number can be shared into four equal groups.

**The only numbers of the grid that Kendra match Kendra's statement are 12 and 24. They can both be shared by 2 and 3.**  
**The numbers on the grid that match Charles' statement are 12, 24 and 32 as all these numbers can be shared into 4 groups.**

DP