

Lesson 1 – Multiplication & Division - Equal Groups

NC Objective:

Solve problems involving multiplication and division, using materials, arrays, repeated addition and multiplication and division facts, including problems in context.

Resources needed:

Differentiated Sheets
Teaching Slides
Objects to make equal and unequal groups

Vocabulary:

Addition, multiplication, equal, unequal, represent

Children describe equal group using stem sentences to support them. It is important that children know which groups are equal and unequal, and why they are equal or unequal. The addition and multiplication symbols are not used within this small step but use of the language of addition and multiplication will support them in understanding repeated addition and multiplication. The examples included refer to the times tables facts that Year 2 children need to know.

Key Questions:

What does the 2 represent? What does the 3 represent?
What does the 5 represent? What does the 2 represent?
I have ___ equal groups, with ___ in each group. Which image am I describing?
Why are these groups equal/unequal?

★ Working Towards

Look at the equal groups. Describe them by completing the sentences.

1. There are ___ equal groups with ___ in each group.

2. There are ___ equal groups with ___ in each group.

3. There are ___ equal groups with ___ in each group.

4. There are ___ equal groups with ___ in each group.

5. There are ___ equal groups with ___ in each group.

6. There are ___ equal groups with ___ in each group.

★★ Working Within

Cut out the picture and stick it into your book. Describe the equal groups and show another representation.

1.

2.

3.

4.

5.

6.

★★★ Greater Depth

How many ways can you represent the statements?

1. eleven 2s	2. twelve 5s	3. five equal groups with 10 in each group
4. eight equal groups with 5 in each group	5. 9 tens	6. 12 twos

Children on this sheet describe the equal groups they see by completing a sentence.

Children on this sheet cut out each question and stick into their books.

Children cut out and read the statements.

They represent the statement in a variety of different ways.

Reasoning & Problem Solving

Which group of money is the odd one out?

Sort into equal and unequal groups.

Equal	Unequal

Explain your answer.

Create your own picture to put in each column.

Which group of money is the odd one out?

Sort into equal and unequal groups.

Equal	Unequal

Explain your answer.

Create your own picture to put in each column.

Which group of money is the odd one out?

Sort into equal and unequal groups.

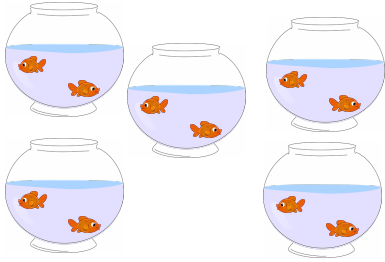
Equal	Unequal

Explain your answer. Why are the other two groups equal?

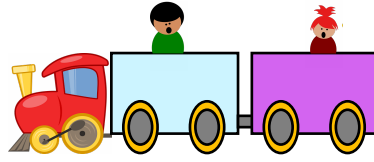
Create your own picture to put in each column.

Look at the equal groups. Describe them by completing the sentences.

1. There are _____ equal groups with _____ in each group.

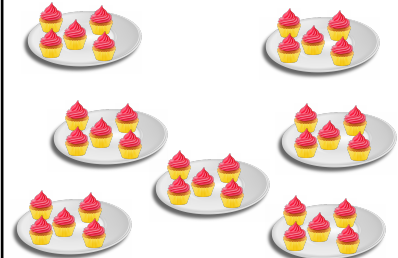


2. There are _____ equal groups with _____ in each group.



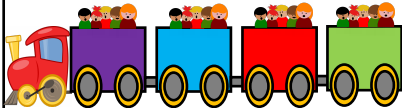
masterthecurriculum.co.uk

3. There are _____ equal groups with _____ in each group.



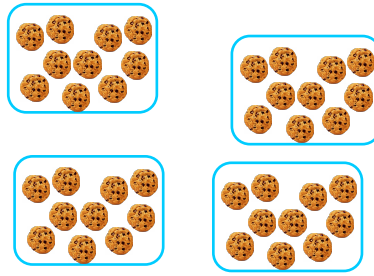
masterthecurriculum.co.uk

4. There are _____ equal groups with _____ in each group.



masterthecurriculum.co.uk

5. There are _____ equal groups with _____ in each group.



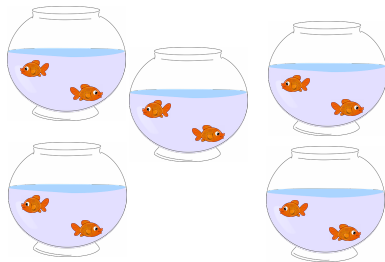
masterthecurriculum.co.uk

6. There are _____ equal groups with _____ in each group.

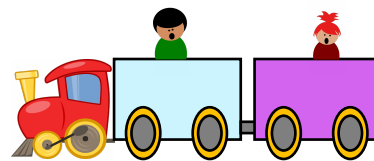


Look at the equal groups. Describe them by completing the sentences.

1. There are _____ equal groups with _____ in each group.

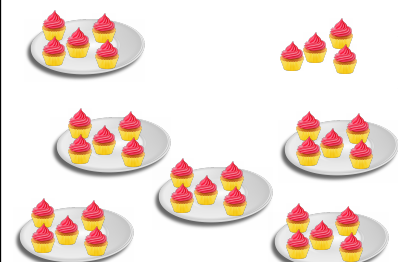


2. There are _____ equal groups with _____ in each group.



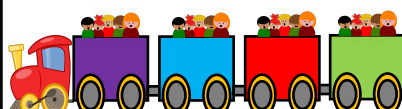
masterthecurriculum.co.uk

3. There are _____ equal groups with _____ in each group.



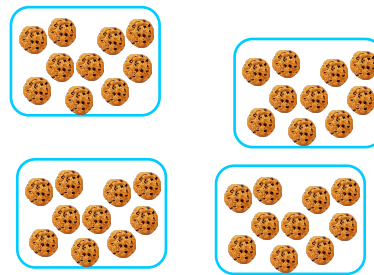
masterthecurriculum.co.uk

4. There are _____ equal groups with _____ in each group.



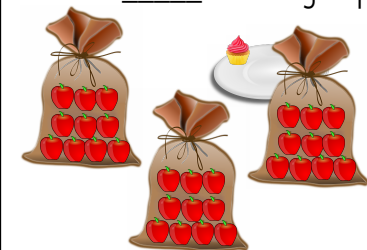
masterthecurriculum.co.uk

5. There are _____ equal groups with _____ in each group.

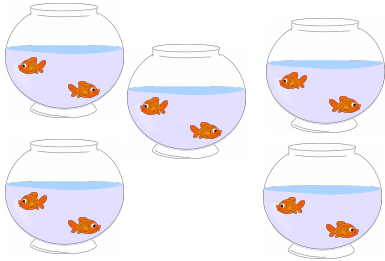
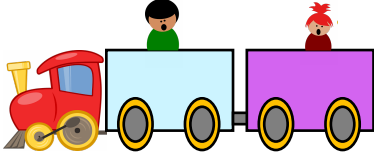

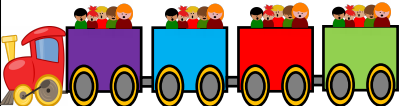
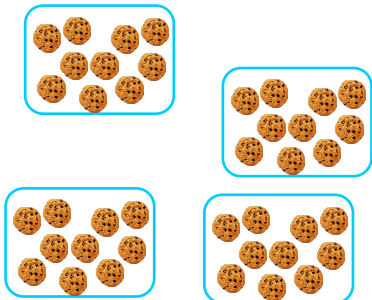



masterthecurriculum.co.uk

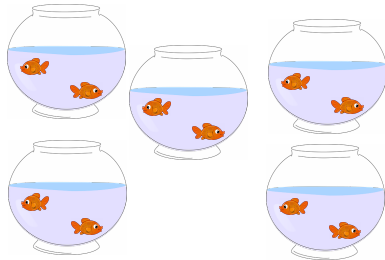
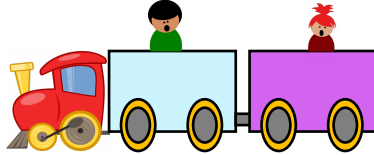

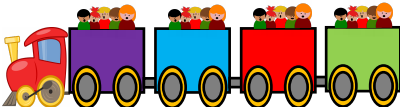
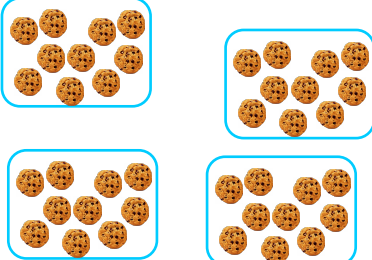

6. There are _____ equal groups with _____ in each group.



Cut out the picture and stick it into your book. Describe the equal groups and show another representation.

<p>1.</p> 	<p>2.</p>  <p>masterthecurriculum.co.uk</p>	<p>3.</p>  <p>masterthecurriculum.co.uk</p>
 <p>masterthecurriculum.co.uk</p>	 <p>masterthecurriculum.co.uk</p>	

Cut out the picture and stick it into your book. Describe the equal group and show another representation.

<p>1.</p> 	<p>2.</p>  <p>masterthecurriculum.co.uk</p>	<p>3.</p>  <p>masterthecurriculum.co.uk</p>
<p>4.</p>  <p>masterthecurriculum.co.uk</p>	<p>5.</p>  <p>masterthecurriculum.co.uk</p>	<p>6.</p> 



How many ways can you represent the statements?

1. eleven 2s	2. twelve 5s <small>masterthecurriculum.co.uk</small>	3. five equal groups with 10 in each group <small>masterthecurriculum.co.uk</small>
4. eight equal groups with 5 in each group <small>masterthecurriculum.co.uk</small>	5. 9 tens	6. 12 twos

masterthecurriculum.co.uk



How many ways can you represent the statements?

1. eleven 2s	2. twelve 5s <small>masterthecurriculum.co.uk</small>	3. five equal groups with 10 in each group <small>masterthecurriculum.co.uk</small>
4. eight equal groups with 5 in each group <small>masterthecurriculum.co.uk</small>	5. 9 tens	6. 12 twos

masterthecurriculum.co.uk



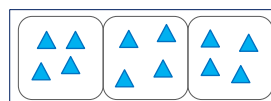
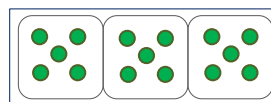
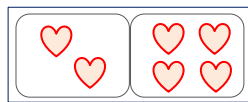
Which group of money is the odd one out?



Explain your answer.

Sort into equal and unequal groups.

Equal	Unequal



Create your own picture to put in each column.



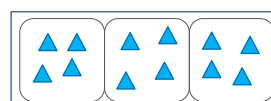
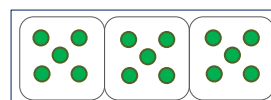
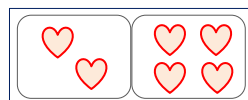
Which group of money is the odd one out?



Explain your answer.

Sort into equal and unequal groups.

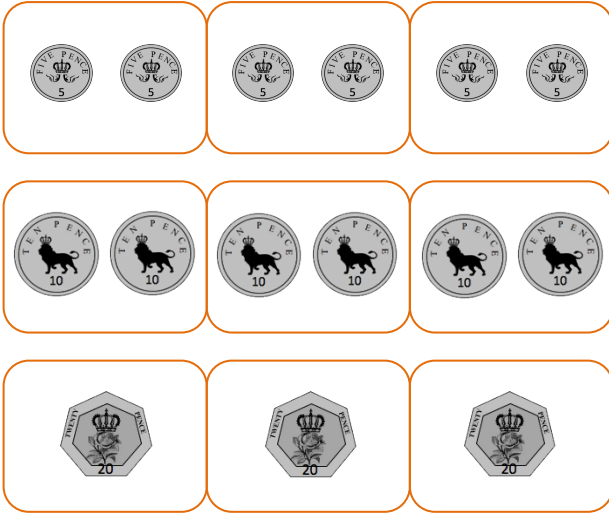
Equal	Unequal



Create your own picture to put in each column.



Which group of money is the odd one out?

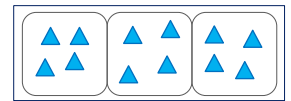
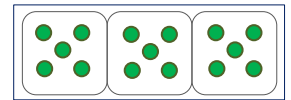
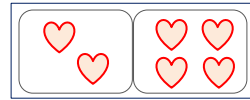


Explain your answer.

The group with 5 p in each, because the other two groups show 3 groups with 20 p in each.

Sort into equal and unequal groups.

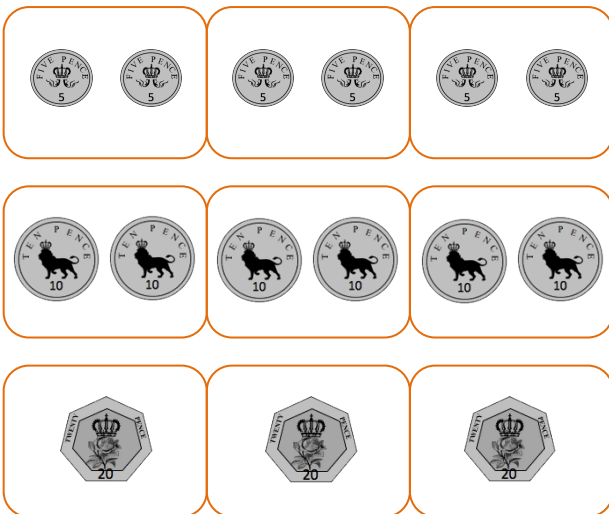
Equal	Unequal
Dots, triangles, stars	Hearts



Create your own picture to put in each column.



Which group of money is the odd one out?

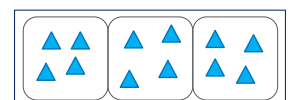
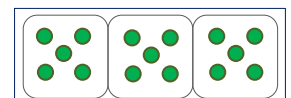
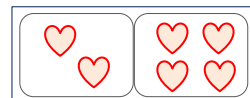


Explain your answer.

The group with 5 p in each, because the other two groups show 3 groups with 20 p in each.

Sort into equal and unequal groups.

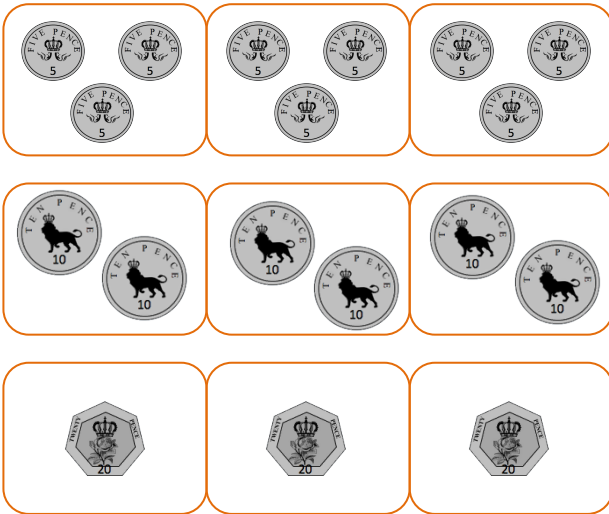
Equal	Unequal
Dots, triangles, stars	Hearts



Create your own picture to put in each column.



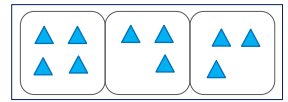
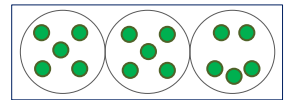
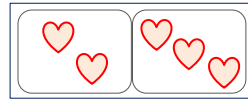
Which group of money is the odd one out?



Explain your answer.

Sort into equal and unequal groups.

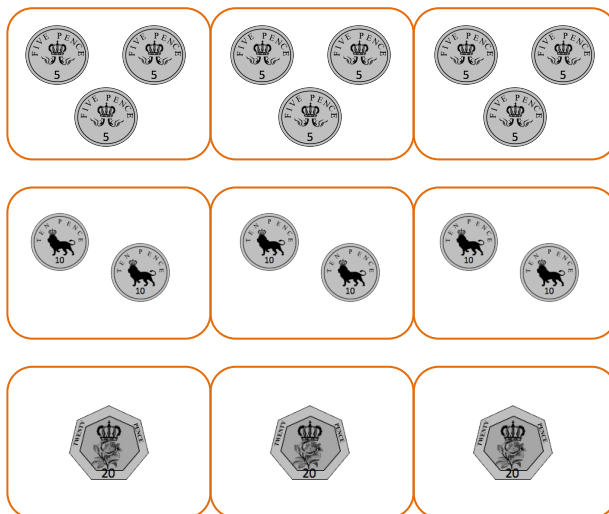
Equal	Unequal



Create your own picture to put in each column.



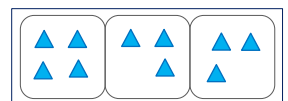
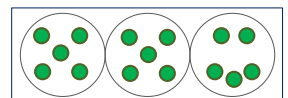
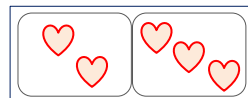
Which group of money is the odd one out?



Explain your answer.

Sort into equal and unequal groups.

Equal	Unequal



Create your own picture to put in each column.



Which group of money is the odd one out?

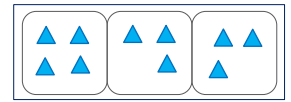
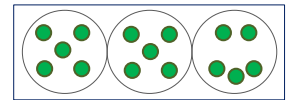
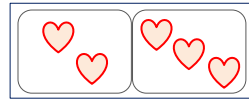


Explain your answer.

The group with 5 p in each, because the other two groups show 3 bags with 20 p in each.

Sort into equal and unequal groups.

Equal	Unequal
Dots, stars	Hearts, triangles



Create your own picture to put in each column.



Which group of money is the odd one out?

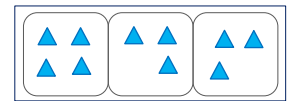
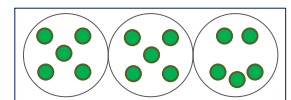
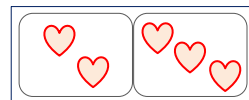


Explain your answer.

The group with 5 p in each, because the other two groups show 3 bags with 20 p in each.

Sort into equal and unequal groups.

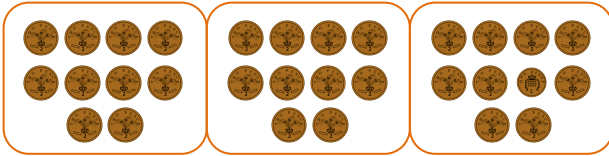
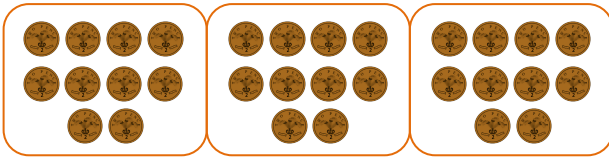
Equal	Unequal
Dots, stars	Hearts, triangles



Create your own picture to put in each column.



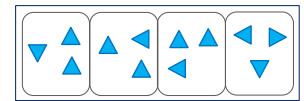
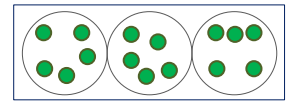
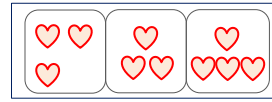
Which group of money is the odd one out?



Explain your answer.
Why are the other two groups equal?

Sort into equal and unequal groups.

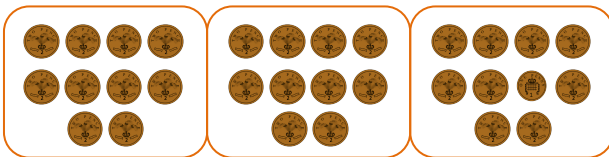
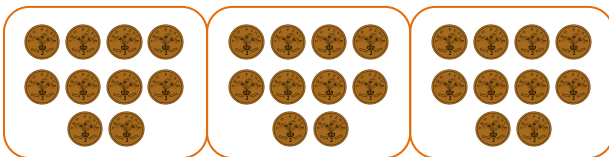
Equal	Unequal



Create your own picture to put in each column.



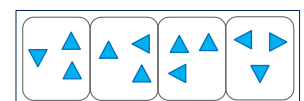
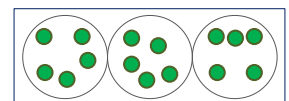
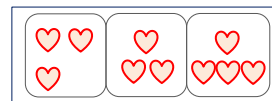
Which group of money is the odd one out?



Explain your answer.
Why are the other two groups equal?

Sort into equal and unequal groups.

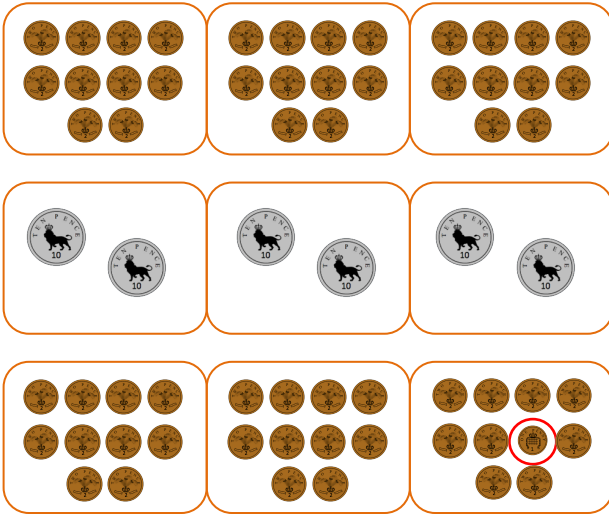
Equal	Unequal



Create your own picture to put in each column.



Which group of money is the odd one out?



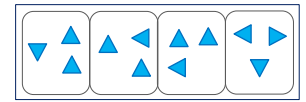
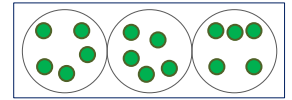
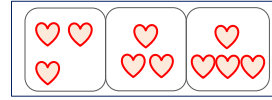
Explain your answer.

Why are the other two groups equal?

The groups in the third row. There is a 1 p coin in one of them so the groups are unequal.
The other two groups show 3 group of 20 p in each.

Sort into equal and unequal groups.

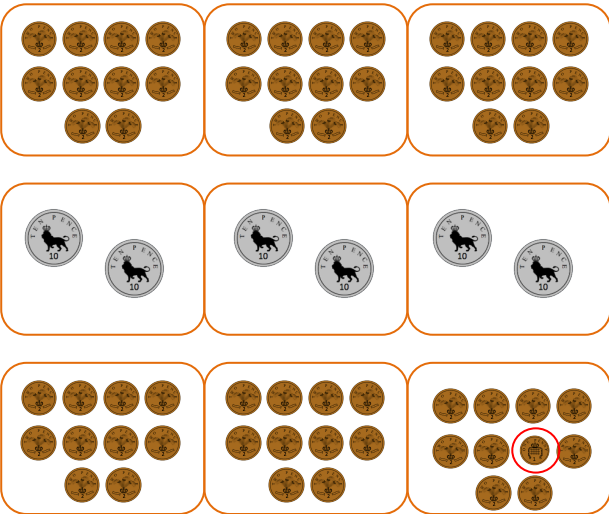
Equal	Unequal
Dots, triangles	Hearts, stars



Create your own picture to put in each column.



Which group of money is the odd one out?



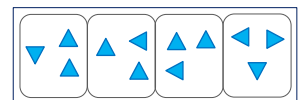
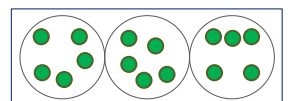
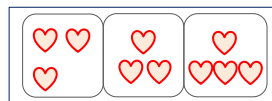
Explain your answer.

Why are the other two groups equal?

The groups in the third row. There is a 1 p coin in one of them so the groups are unequal.
The other two groups show 3 group of 20 p in each.

Sort into equal and unequal groups.

Equal	Unequal
Dots, triangles	Hearts, stars



Create your own picture to put in each column.