## Lesson 3 – Multiplication & Division – Grouping Practically

| NC Objective: | Resources needed: | Vocabulary: |
|---|---|---|
| Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers. | Differentiated Sheets<br>Teaching Slides | Division, multiplication and repeated addition. |

Children divide by making equal groups. They then count on to find the total number of groups.
They need to do this using concrete manipulatives and pictorially in a variety of contexts.
They need to recognise the link between division, multiplication and repeated addition. Children divide by grouping given amounts practically.

Key Questions:
How many do you have to begin with? How many are in each group? How many groups can you make? How long should your number line be? What will you count up in?
___ groups of ___ make ___.

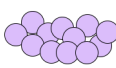| ★ Working Towards | ★★ Working Within | ★★★ Greater Depth |
|---|---|---|
|  |  |  |
| They use counters or cubes to physically make equal groups.<br>Children on this sheet have simple instructions for the amount they need to get and the amount needed in the group. | They use counters or cubes to physically make equal groups.<br>Children on this sheet have simple word problems and use cubes or counters to represent objects. | They use counters or cubes to physically make equal groups.<br>Children on this sheet have a good understanding of equal groups. They work with numbers that enable remainders and work out the division calculation that needs to be used where there will not be a remainder. |

## Reasoning & Problem Solving

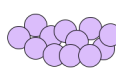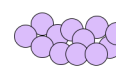| | | |
|---|---|---|
| You have 20 counters.<br>How many different ways can you put them into equal groups?<br>Write down all the possible ways.<br> | You have 40 counters.<br>How many different ways can you put them into equal groups?<br>Write down all the possible ways.<br> | You have 54 counters.<br>How many different ways can you put them into equal groups?<br>Write down all the possible ways.<br> |

Use counters or cubes and group them equally to answer the questions.

I have __10__ counters.
How many **groups of 2** can I make?

I have __8__ counters.
How many **groups of 2** can I make?

I have __15__ counters.
How many **groups of 5** can I make?

I have __10__ counters.
How many **groups of 5** can I make?

I have __12__ counters.
How many **groups of 3** can I make?

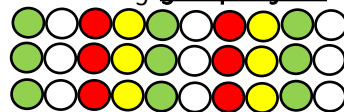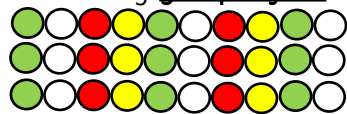I have __6__ counters.
How many **groups of 3** can I make?

I have __20__ counters.
How many **groups of 10** can I make?

I have __30__ counters.
How many **groups of 10** can I make?

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Use counters or cubes and group them equally to answer the questions.

I have __10__ counters.
How many **groups of 2** can I make?

I have __8__ counters.
How many **groups of 2** can I make?

I have __15__ counters.
How many **groups of 5** can I make?

I have __10__ counters.
How many **groups of 5** can I make?

I have __12__ counters.
How many **groups of 3** can I make?

I have __6__ counters.
How many **groups of 3** can I make?

I have __20__ counters.
How many **groups of 10** can I make?

I have __30__ counters.
How many **groups of 10** can I make?

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Use counters or cubes and group them equally to answer the questions..

I have 10 counters.
How many **groups of 2** can I make?

5

I have 8 counters.
How many **groups of 2** can I make?

4

I have 15 counters.
How many **groups of 5** can I make?

3

I have 10 counters.
How many **groups of 5** can I make?

2

I have 12 counters.
How many **groups of 3** can I make?

4

I have 6 counters.
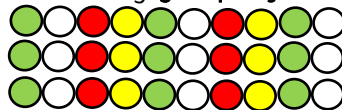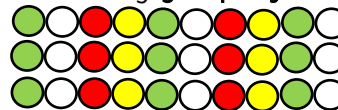How many **groups of 3** can I make?

2

I have 20 counters.
How many **groups of 10** can I make?

2

I have 30 counters.
How many **groups of 10** can I make?

3

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Use counters or cubes and group them equally to answer the questions.

Counters come in packs of 20.
I want to put 5 in a pot.
How many pots will I need?

Counters come in packs of 18.
I want to put 2 in a pot.
How many pots will I need?

Cubes come in packs of 50.
I want to put 10 on each table.
How many tables will I need?

Cubes come in packs of 30.
I want to put 10 on each table.
How many tables will I need?

Pencils come in packs of 15.
I want to put 3 in a pot.
How many pots will I need?

Pencils come in packs of 16.
I want to put 4 in a pot.
How many pots will I need?

I have 8 teddies.
I want to put 2 on a shelf.
How many shelves will I need?

I have 12 teddies.
I want to put 3 on a shelf.
How many shelves will I need?

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Use counters or cubes and group them equally to answer the questions.

Counters come in packs of 20.
I want to put 5 in a pot.
How many pots will I need?

**4**

Counters come in packs of 18.
I want to put 2 in a pot.
How many pots will I need?

**9**

Cubes come in packs of 50.
I want to put 10 on each table.
How many tables will I need?

**5**

Cubes come in packs of 30.
I want to put 10 on each table.
How many tables will I need?

**3**

Pencils come in packs of 15.
I want to put 3 in a pot.
How many pots will I need?

**5**

Pencils come in packs of 16.
I want to put 4 in a pot.
How many pots will I need?

**4**

I have 8 teddies.
I want to put 2 on a shelf.
How many shelves will I need?

**4**

I have 12 teddies.
I want to put 3 on a shelf.
How many shelves will I need?

**4**

Use counters or cubes and group them equally to answer the questions.

Counters come in packs of 20.  I want to put 8 in a pot.
How many full pots will I have? _____
How many will be left over?_____
What division sentence can you write to show the pots equally filled? _____

Cubes come in packs of 33. I want to put 10 on each table.
How many tables will I need? _____
How many will be left over?_____
What division sentence can you write to show the tables equally filled? _____

Pencils come in packs of 15. I want to put 6 in a pot.
How many pots will I need?_____
How many will be left over?_____
What division sentence can you write to show the pots equally filled? _____

I have 27 teddies. I want to put 5 on a shelf.
How many shelves will I need? _____
How many will be left over?_____
What division sentence can you write to show the shelves equally filled? _____

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Use counters or cubes and group them equally to answer the questions..

Counters come in packs of 20.  I want to put 8 in a pot.
How many full pots will I have? __2__
How many will be left over? __4__
What division sentence can you write to show the pots equally filled? __16 ÷ 8 = 2__

Cubes come in packs of 33. I want to put 10 on each table.
How many tables will I need? __3__
How many will be left over? __3__
What division sentence can you write to show the tables equally filled? __30 ÷ 3 = 10__

Pencils come in packs of 15. I want to put 6 in a pot.
How many pots will I need? __2__
How many will be left over? __3__
What division sentence can you write to show the pots equally filled? __12 ÷ 6 = 2__

I have 27 teddies.  I want to put 5 on a shelf.
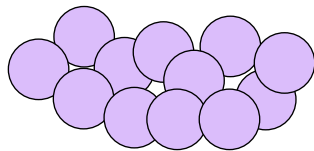How many shelves will I need? __5__
How many will be left over? __2__
What division sentence can you write to show the shelves equally filled? __25 ÷ 5 = 5__

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You have 20 counters.

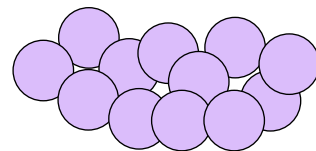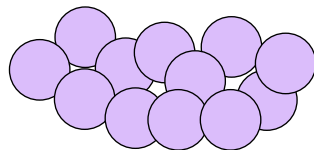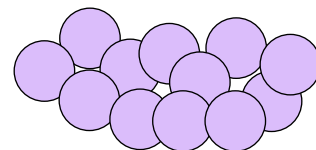How many different ways can you put them into equal groups?

Write down all the possible ways.

You have 20 counters.

How many different ways can you put them into equal groups?
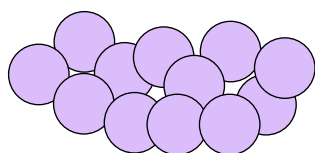
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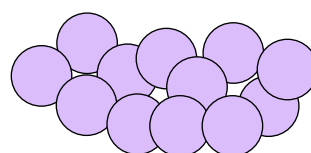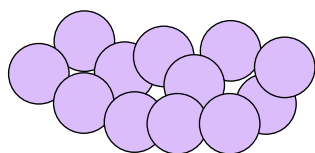You have 20 counters.

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## Answers

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How many different ways can you put them into equal groups?
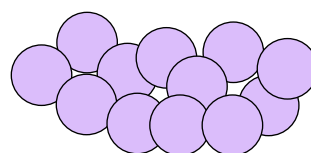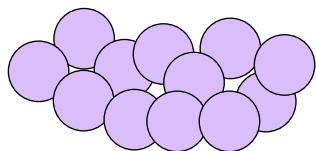
Write down all the possible ways.

10 groups of 2, 2 groups of 10,
4 groups of 5, 5 groups of 4,
1 group of 20, 20 groups of 1.

You have 40 counters.

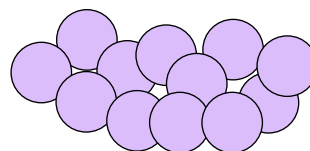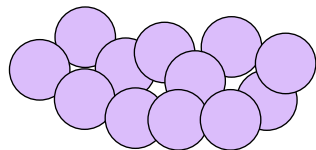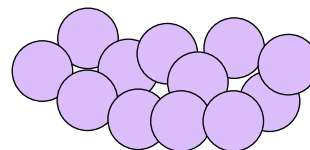How many different ways can you put them into equal groups?

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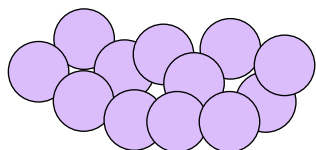Write down all the possible ways.

## Answers

You have 40 counters.

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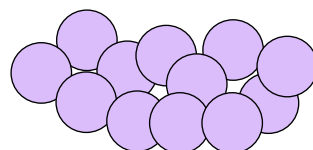
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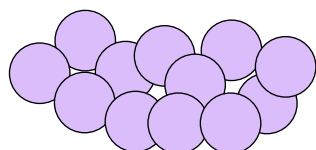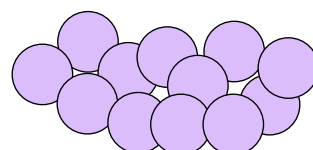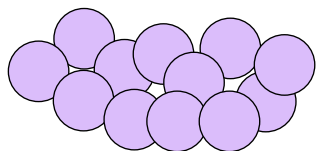


10 groups of 4, 4 groups of 10,
8 groups of 5, 5 groups of 8,
2 groups of 20, 20 groups of 2,
1 group of 40, 40 groups of 1.

You have 54 counters.

How many different ways can you put them into equal groups?

Write down all the possible ways.

You have 54 counters.

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Write down all the possible ways.

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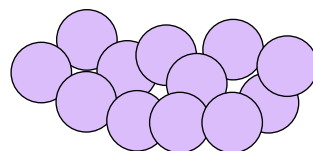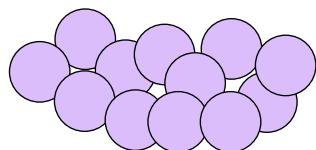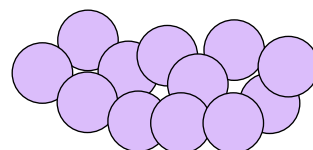
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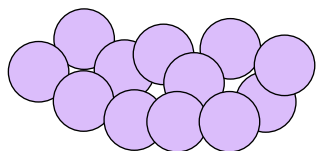
Write down all the possible ways.

## Answers

You have 54 counters.

How many different ways can you put them into equal groups?

Write down all the possible ways.

6 group of 9, 9 groups of 6,
3 groups of 18, 18 groups of 3,
2 groups of 27, 27 groups of 2,
1 group of 54, 54 groups of 1.

## Answers

You have 54 counters.

How many different ways can you put them into equal groups?
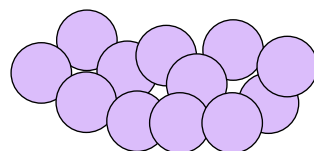
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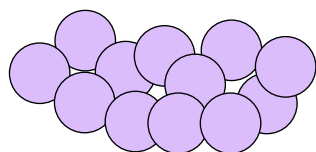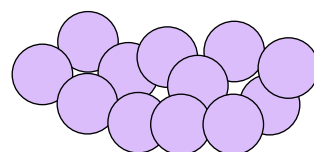
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6 group of 9, 9 groups of 6,
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## Answers

You have 54 counters.

How many different ways can you put them into equal groups?

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3 groups of 18, 18 groups of 3,
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