

# Multiplication and Division

# Knowledge Organiser

## Key Vocabulary

groups

equal groups

lots of

arrays

repeated addition

multiplication

times tables

divison

odd

even

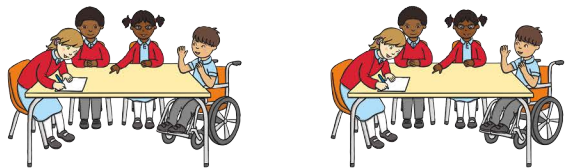
double

half

## Recognise Equal Groups



5 equal groups with 3 in each group



2 equal groups with 4 in each group

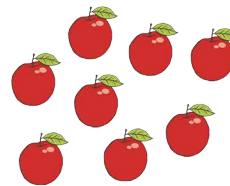


4 equal groups of 10

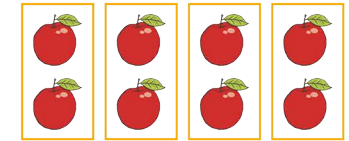


6 equal amounts of 5 pence

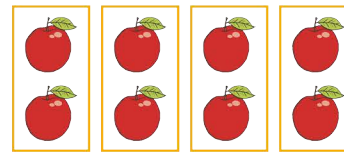
## Make Equal Groups



Make 4 equal groups.

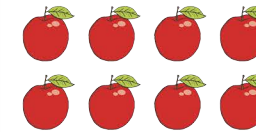


## Add Equal Groups



$2 + 2 + 2 + 2 = 8$  apples

## The Multiplication Symbol



$$4 \times 2 = 8$$

8 apples

$$2 \times 4 = 8$$

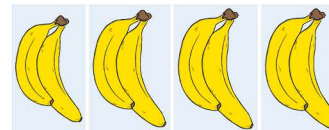


$$2 \times 5 = 10$$

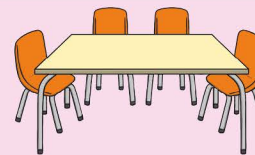
10 cookies

$$5 \times 2 = 10$$

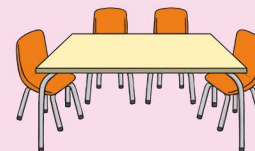
## Multiplication from Pictures



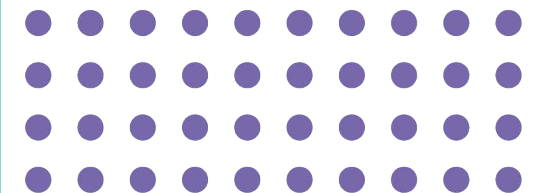
4 lots of 2  
 $= 8$



2 lots of 4  
 $= 8$



## Use Arrays



4 rows of 10 = 40  
10 columns of 4 = 40

# Multiplication and Division

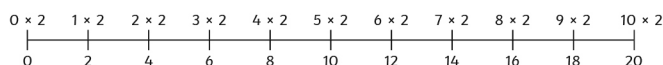
## The 2 Times Table



$$6 \text{ lots of } 2 = 12$$

$$6 \times 2 = 12$$

2	4	6	8	10	12	14	16	18	20	22	24
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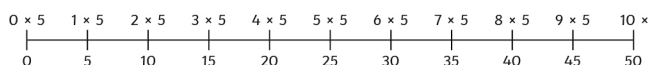
## The 5 Times Table



$$9 \text{ lots of } 5 = 45$$

$$9 \times 5 = 45$$

5	10	15	20	25	30	35	40	45	50	55	60
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# Knowledge Organiser

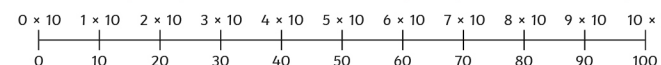
## The 10 Times Table



$$7 \text{ lots of } 10p = 70p$$

$$7 \times 10 = 70$$

10	20	30	40	50	60	70	80	90	100	110	120
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## Divide by 2

There are 10 sandwiches altogether.

There are 5 lunch boxes.

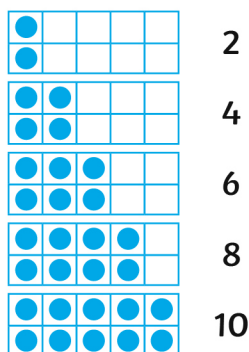
There are 2 sandwiches in each lunch box.



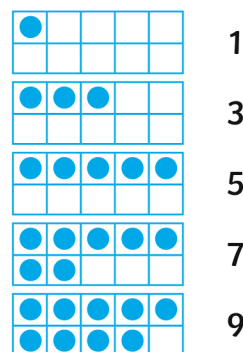
$$10 \div 5 = 2$$

## Odd and Even Numbers

### Even Numbers



### Odd Numbers



## Divide by 5

There are 30 grapes altogether.

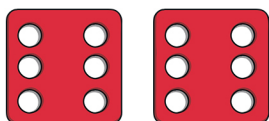
There are 5 bowls.

There are 6 grapes in each bowl.



$$30 \div 5 = 6$$

## Doubling and Halving



Double 6 is 12



Half of 12 is 6

## Divide by 10

There are 50 pencils altogether.

There are 10 pots.

There are 5 pencils in each pot.



$$50 \div 10 = 5$$

## The 5 and 10 Times Table

5	10	15	20	25	30	35	40	45	50
10	20	30	40	50	60	70	80	90	100

What do you notice?