

# Templars Primary School Knowledge Organiser Year 2 Multiplication and Division

## Key Vocabulary

groups

equal groups

lots of

arrays

repeated addition

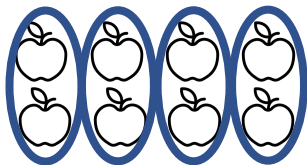
multiplication

times tables

divide

share

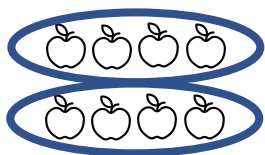
## Recognise equal groups



4 equal groups with 2 in each group



5 equal groups with 3 in each group

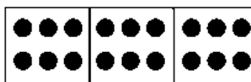


2 equal groups with 4 in each group



5 equal amounts of 5 pence

## The 'x' symbol



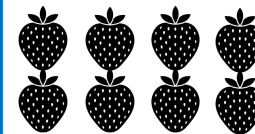
$$6 + 6 + 6 = 18$$

$$6 \times 3 = 18$$

There are 3 equal groups with 6 in each group. There are there 6s.

Three 2s	Draw it	Addition	Multiplication
3 equal groups with 2 in each group		$2 + 2 + 2 = 6$	$2 \times 3 = 6$

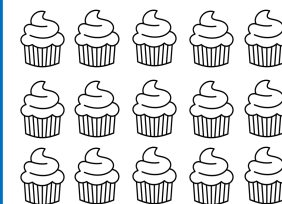
## Multiply from pictures



$$4 \times 2 = 8$$

$$2 \times 4 = 8$$

8 strawberries



$$5 \times 3 = 15$$

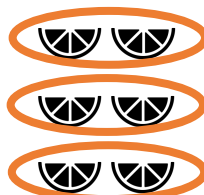
$$3 \times 5 = 15$$

15 cakes

## Make equal groups

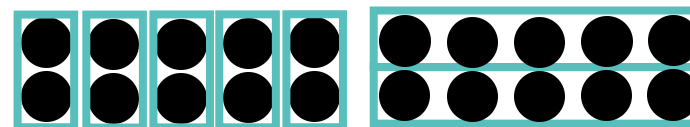


Make 3 equal groups



## Use arrays

Multiplication statements are **commutative**. This means that the numbers can be multiplied in any order and the answer will be the same.



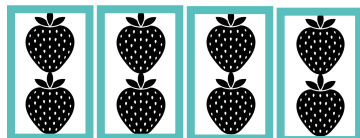
$$2 \times 5 = 10$$

=

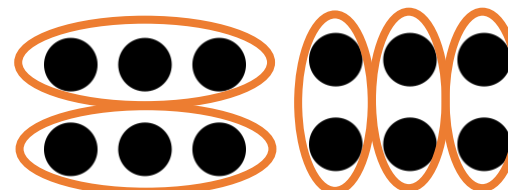
$$5 \times 2 = 10$$

## Add equal groups

There are 4 equal groups with 2 in each group.  
There are **four 2s**.



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



$$3 \times 2 = 6$$

=

$$2 \times 3 = 6$$

# Times Tables

## 10x table

- $1 \times 10 = 10$
- $2 \times 10 = 20$
- $3 \times 10 = 30$
- $4 \times 10 = 40$
- $5 \times 10 = 50$
- $6 \times 10 = 60$
- $7 \times 10 = 70$
- $8 \times 10 = 80$
- $9 \times 10 = 90$
- $10 \times 10 = 100$
- $11 \times 10 = 110$
- $12 \times 10 = 120$

## 5x table

- $1 \times 5 = 5$
- $2 \times 5 = 10$
- $3 \times 5 = 15$
- $4 \times 5 = 20$
- $5 \times 5 = 25$
- $6 \times 5 = 30$
- $7 \times 5 = 35$
- $8 \times 5 = 40$
- $9 \times 5 = 45$
- $10 \times 5 = 50$
- $11 \times 5 = 55$
- $12 \times 5 = 60$

## 2x table

- $1 \times 2 = 2$
- $2 \times 2 = 4$
- $3 \times 2 = 6$
- $4 \times 2 = 8$
- $5 \times 2 = 10$
- $6 \times 2 = 12$
- $7 \times 2 = 14$
- $8 \times 2 = 16$
- $9 \times 2 = 18$
- $10 \times 2 = 20$
- $11 \times 2 = 22$
- $12 \times 2 = 24$

## 3x table

- $1 \times 3 = 3$
- $2 \times 3 = 6$
- $3 \times 3 = 9$
- $4 \times 3 = 12$
- $5 \times 3 = 15$
- $6 \times 3 = 18$
- $7 \times 3 = 21$
- $8 \times 3 = 24$
- $9 \times 3 = 27$
- $10 \times 3 = 30$
- $11 \times 3 = 33$
- $12 \times 3 = 36$

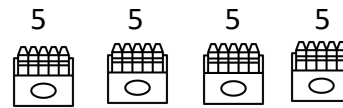
# Make equal groups - grouping



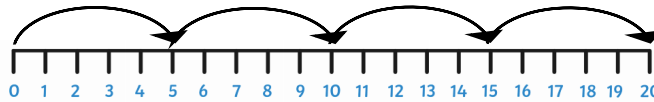
Crayons come in packs of 20.  
We need to put 5 in each pot.  
How many pots will we need?

$$20 \div \square = 5$$

$$20 \div 5 = \square$$



We need 4 pots



# Odd and even numbers

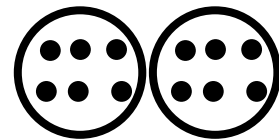
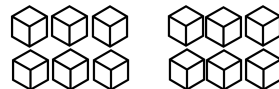
Odd numbers cannot be divided exactly by 2.  
The last digit is 1, 3, 5, 7 or 9

Even numbers can be divided exactly by 2.  
The last digit is 0, 2, 4, 6 or 8

Odd	Even
<p>39</p> <p>nine</p>	<p>26</p>

# Divide by 2, 5 and 10

$12 \div 2 = 6$   
Share 12 into 2 groups



12



Count how many 2s go into 12



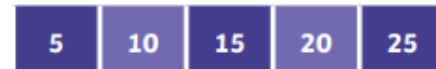
25 pencils are shared between 5 children.  
How many does each child get?



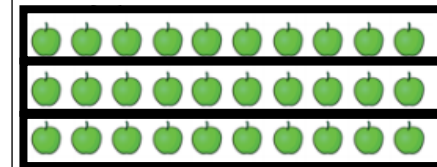
25



5 lots of 5 go into 25



$30 \div 10 = 3$



30

