



# Operations with Number



### Contents

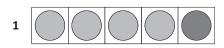
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Series Author:

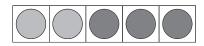
**Rachel Flenley** 



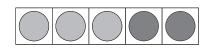
#### Page 1



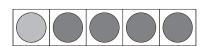
- 4 and 1 makes 5
- 4 + 1 = 5



- 2 and 3 makes 5
- 2 + 3 = 5

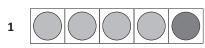


- 3 and 2 makes 5
- 3 + 2 = 5



- 1 and 4 makes 5
- 1 + 4 = 5

#### Page 2



- 5 take away 1 leaves 4
  - 5 1 = 4



5 take away 2 leaves 3

- 1
  - 5 take away 3 leaves 2
    - 5 3 = 2



- 5 take away 4 leaves 1
  - 5 4 = 1

#### Page 3

What to do

Teacher check.

#### Page 4

What to do

Teacher check.

#### What to do next

Teacher check.

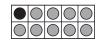
#### Pages 5-6

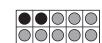
What to do

Teacher check.

#### Page 7

1





- 2 and 8 is 10
- 2 + 8 = 10



- 3 and 7 is 10
- 3 + 7 = 10

1



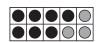
- 4 and 6 is 10
- 4 + 6 = 10



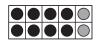
- 5 and 5 is 10
- 5 + 5 = 10



- 6 and 4 is 10
- 6 + 4 = 10



- 7 and 3 is 10
- 7 + 3 = 10



- 8 and 2 is 10
  - 8 + 2 = 10

#### Page 8

What to do

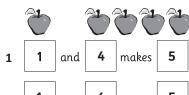
Teacher check.

#### Pages 9-10

What to do

Teacher check.

#### Page 11



#### Page 11



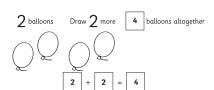


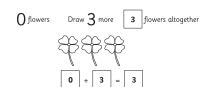


#### Page 12

1 3 bananas Draw 2 more 5 bananas altogether







#### Page 13

1 Drawings will vary.



6 flowers Draw 3 more 
$$\boxed{\mathbf{q}}$$
 altogether  $\boxed{\mathbf{6}}$  +  $\boxed{\mathbf{3}}$  =  $\boxed{\mathbf{q}}$ 

#### Page 14



2 Answers will vary.

#### Page 15

#### What to do

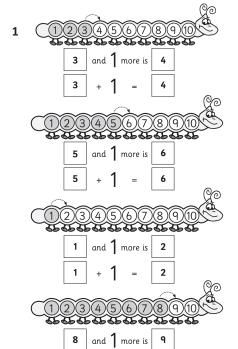
Teacher check.

#### Page 16

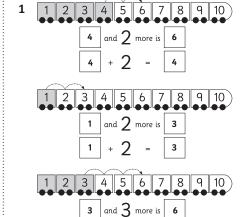
#### What to do

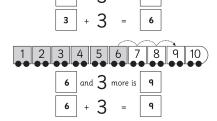
Teacher check.

#### Page 17



#### Page 18

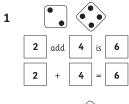


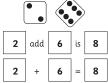


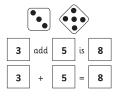
#### Page 19

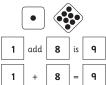
- **1** 7; 7
  - 9;9
  - 7; 7

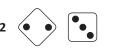
#### Page 20















#### Page 21

#### What to do

7

#### Page 22

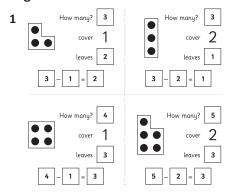
#### What to do

Teacher check.

#### Page 23

- 1 4; Drawings will vary.
  - 5; Drawings will vary.

#### Page 24



#### Page 25

#### What to do

Put out 
$$5$$
 take away  $2$  leaves  $\boxed{3}$ 

$$5 - 2 = \boxed{3}$$

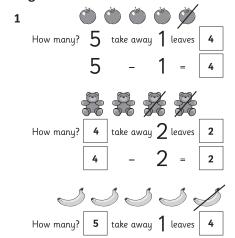
Put out 
$$3$$
 take away  $2$  leaves  $\boxed{1}$ 

Put out 
$$5$$
 take away  $3$  leaves 2

#### What to do next

Teacher check.

#### Page 26



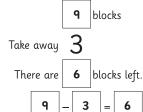
#### Pages 27-28

#### What to do

How many apples?	5	How many apples?	5
Pick	1	Pick	2
How many are left?	4	How many are left?	3
How many apples?	5	How many apples?	5
Pick	3	Pick	4
How many are left?	2	How many are left?	1
How many apples?	5	How many apples?	5
Pick	5	Pick	0
How many are left?	0	How many are left?	5

#### Page 29





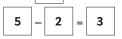


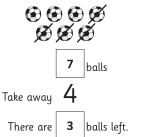
strawberries

3

Take away

3 strawberries left. There are





#### Page 30

#### What to do

Teacher check.

#### Page 31

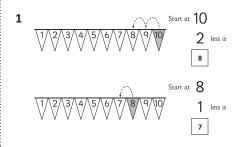
#### What to do

Teacher check.

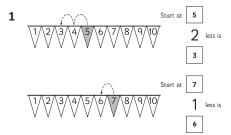
#### Page 32

1 
$$2$$
 less than  $7$  is  $\boxed{5}$ 

#### Page 33



#### Page 33



#### Page 34

#### What to do

2

7

#### Page 35

#### What to do

Teacher check.

#### Page 36



#### Page 37

#### What to do

- 3; Drawings will vary.
- 1; Drawings will vary.

#### Page 38

#### What to do

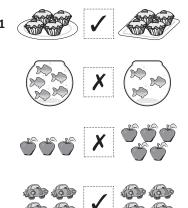
Teacher check.

#### Page 39

#### What to do

Teacher check. Drawings will vary.

#### Page 40





#### Page 41

#### What to do

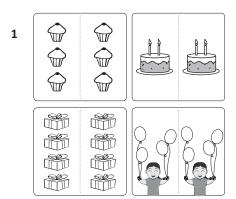
Teacher check.

#### What to do next

Observe students.

#### Page 42

#### Page 43



#### Page 44

#### What to do

Teacher check.

#### Page 45

#### What to do

9

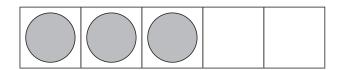
2

## Number bonds

Name\_\_\_\_\_

1

How many more to make 5?
Use counters to help you find the answer.





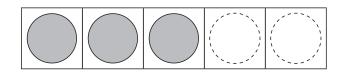


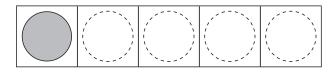






2 How many are left?
Use counters to help you find the answer.





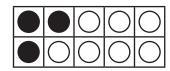
## Number bonds

Name\_\_\_\_

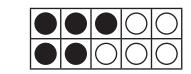
3



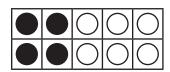
Finish the number facts.



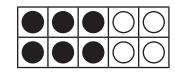








c	and		is	10
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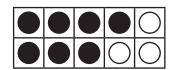


and		is <b>1</b>	0
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4

How many are left?

Use counters to help you find the answer.



	 ,	
10 take away	leaves	

Skills and understandings	Not yet	Kind of	Got it
• Students can add and subtract to form number bonds to 5 and 10			



How many are there altogether?







and



makes







and



makes







Draw more. How many are there altogether?



cats

Draw 2 more



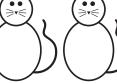
altogether









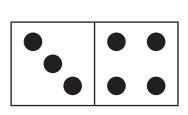




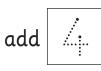


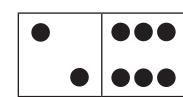


How many are there altogether?











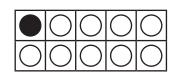
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is

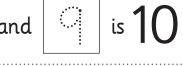
add

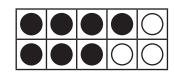
Colour more dots to make 10. Finish the number facts.



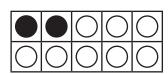






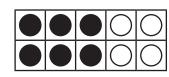






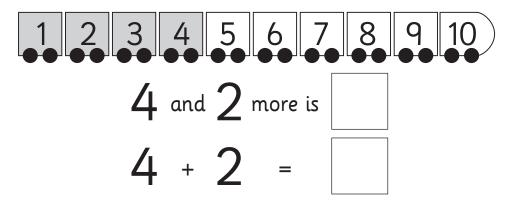
|--|





and is 10
-----------

Count on.



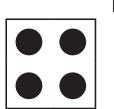
Skills and understandings	Not yet	Kind of	Got it
• Combines two or more groups to model addition (to 10)			
<ul> <li>Recognises and uses addition terms such as 'add', 'and', 'plus' and 'altogether'</li> </ul>			
Creates addition combinations to make 10			
• Counts on in 1s or 2s to add (to 10)			

## Subtraction

Name\_\_\_\_\_



Cover and solve.



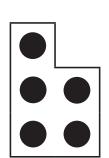
How many?

cover



leaves





How many?

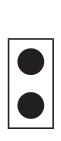


cover

.5

leaves

-	_	=	



How many?

cover

leaves

How many?

cover

4	
_	

leaves

5	



Cross off to take away 1.











How many?

take away 1 leaves

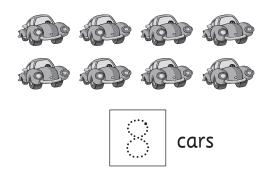




3



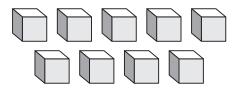
Cross off to take away.



Take away 4

There are		cars	left
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blocks
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Take away 3

There are	blocks	left
There are	blocks	left

4

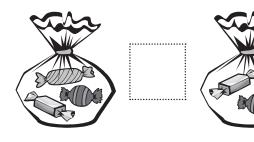
Count back.

Start at 10

2 less is

Skills and understandings	Not yet	Kind of	Got it
Separates groups to model subtraction (to 10)			
<ul> <li>Recognises and uses simple subtraction terms such as 'take away', 'less', 'leaves', 'left' and 'count back'</li> </ul>			
• Counts back in 1s or 2s to subtract (to 10)			

- the groups that are **the same**.
  - the groups that are **not the same**.

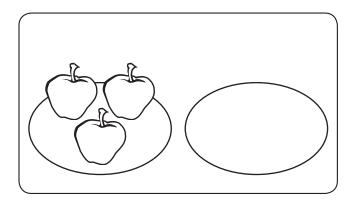


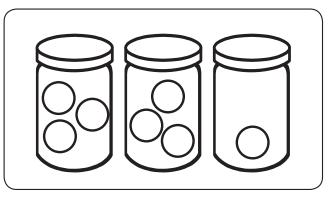




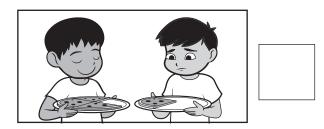


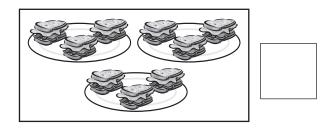
Draw more to make each group the same.





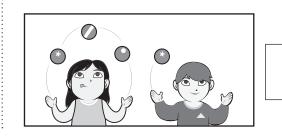
- Are the shares fair?
  - ) the fair shares.
  - ) the ones that are not fair.







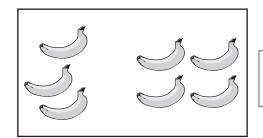


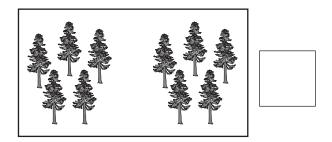


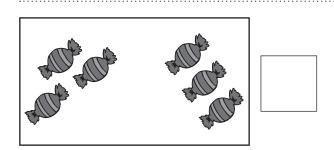
# Grouping and sharing

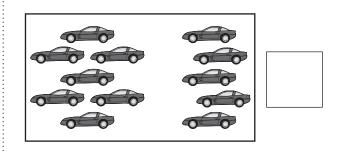
Name\_\_\_\_\_

- **4** Are the groups equal?
  - the equal groups.
  - the ones that are not equal.







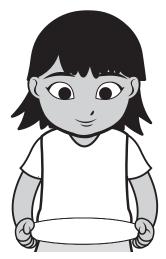


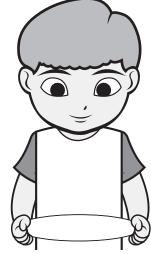


Solve. Use counters or draw pictures to help you.

There are **8** cupcakes and **2** people. Give each person a fair share.

How many cupcakes does each person get?





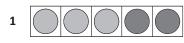
Skills and understandings	Not yet	Kind of	Got it
<ul> <li>Recognises and uses terms such as 'equal groups' and 'fair shares'</li> </ul>			
Recognises unequal groups or rows			
Models fair shares			

# Series A – Operations with Number – Student Progress Record

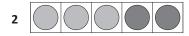
Name	Class	Date
What went well:		
What I need to improve:		
Series A – Operation	ıs with Number – Studer	nt Progress Record
•	rs with Number – Studer	
Name		Date
Name	Class	Date

#### **ASSESSMENT ANSWERS**

#### Pages 5-6









3











6	and	4	is <b>1C</b>
	]		40

4

10 take away	7	leaves	3

#### Pages 7-8



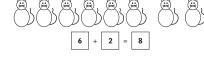


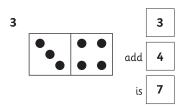
1	and	4	makes	5

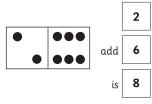


3 and 3 makes	6
---------------	---

2 6 cats Draw 2 more 8 altogether







1	and	9	is 1	0
1	and	9	is <b>1</b>	$\cap$









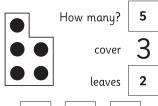
$$4$$
 and  $2$  more is  $\boxed{6}$ 

#### Pages 9-10

How many? 4

cover 2

leaves 2



#### Pages 9-10



How many?

cover

leaves





How many?

cover

leaves



2



How many? 5 take away 1 leaves



cars

Take away

There are cars left.



blocks

Take away

There are blocks left.



#### Pages 11-12





























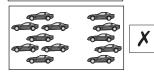














Topic	Reference	Strand	Objective
Number Bonds	ELG11	Number	Children count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number. Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer. They solve problems, including doubling, halving and sharing.
Addition	ELG11	Number	Children count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number. Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer. They solve problems, including doubling, halving and sharing.
Subtraction	ELG11	Number	Children count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number. Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer. They solve problems, including doubling, halving and sharing.
Grouping and Sharing	ELG11	Number	Children count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number. Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer. They solve problems, including doubling, halving and sharing.