

Series A – Numbers and Patterns

Contents

Student book answers _____	1
Assessment _____	6
Student progress record _____	17
Assessment answers _____	18
Objectives _____	19

Series Author:

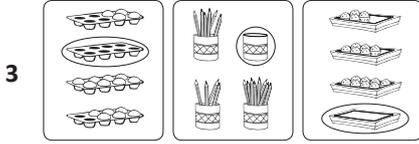
Rachel Flenley

Series A – Numbers and Patterns

Page 1

1 Teacher check.

2 nought none
nil nothing



4 Teacher check.

Page 2

1 Teacher check.

2 Teacher check.

3 Teacher check.

Page 3

1 Teacher check.

2 Teacher check.

3 2 2 2
2 2 1

Page 4

1 Teacher check.

2 three tree thre three here

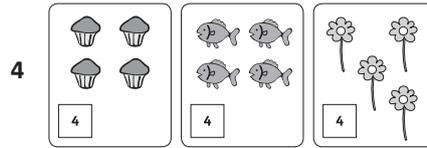
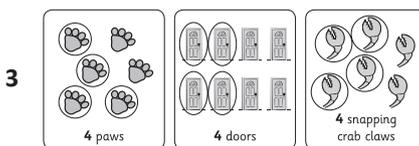
3 Teacher check.

4 3 2 1
3 2 3

Page 5

1 Teacher check.

2 four for four our four



Page 6

1 Teacher check.

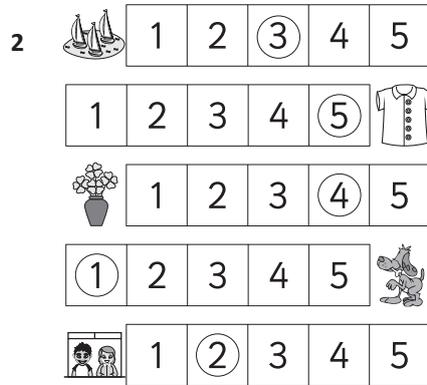
2 i; f; v; e

3 Teacher check.

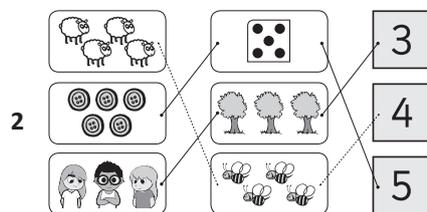
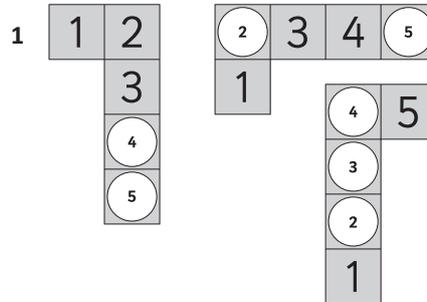
4 Teacher check.

Page 7

1 Teacher check.



Page 8



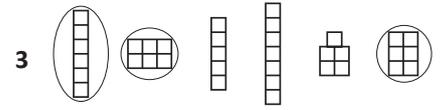
Page 9

Teacher check.

Page 10

1 Teacher check.

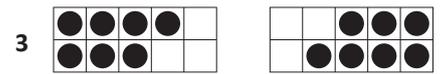
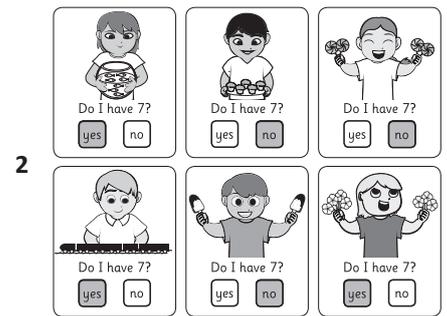
2 Teacher check.



4 Observe students.

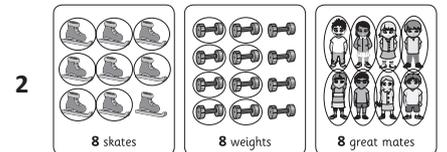
Page 11

1 Teacher check.



Page 12

1 Teacher check.



3 Teacher check.



Page 13

1 Teacher check.

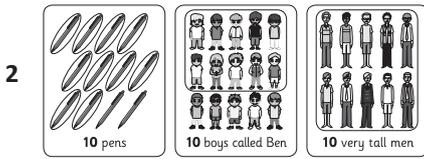


3 Answers will vary.

Series A – Numbers and Patterns

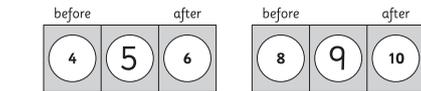
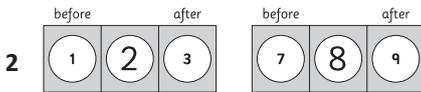
Page 14

1 Teacher check.



3 Teacher check.

Page 15

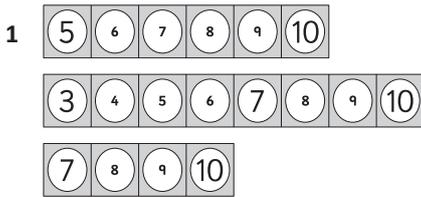


3 Observe students.

Page 16

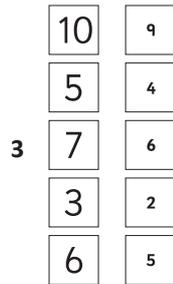
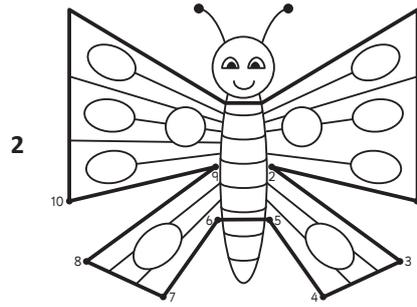
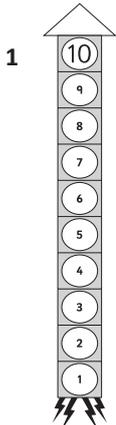
- 1 4
- 2 9
- 3 8

Page 17

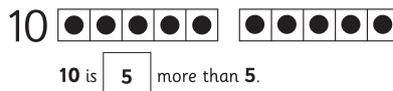
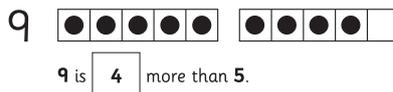
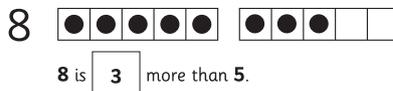
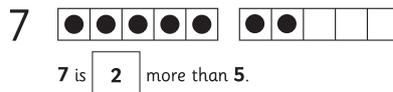
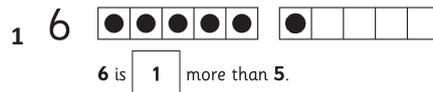


2 Teacher check.

Page 18



Page 19



2 1; 2

Page 20

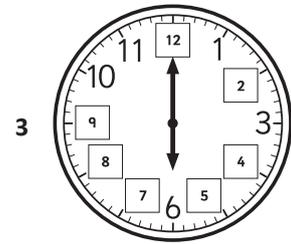
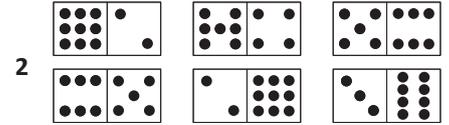
- 1 1 9 2
- 8 3 5
- 6 4 7
- 10

Page 21

- 1 Teacher check.
- 2 Teacher check.

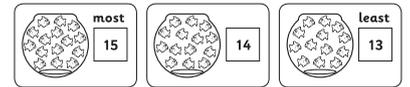
Page 22

1 Teacher check.



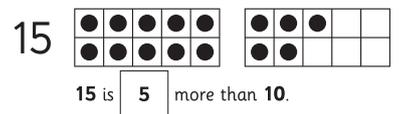
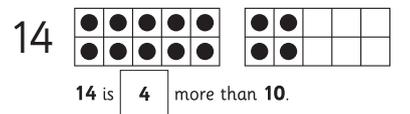
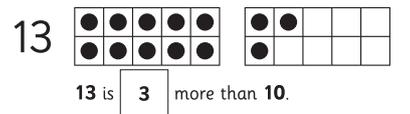
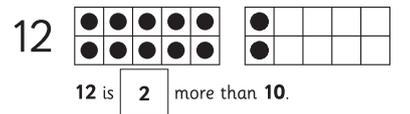
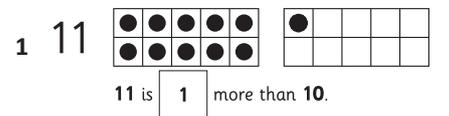
Page 23

- 1 Teacher check.
- 2 Teacher check.



3 Answers will vary.

Page 24



2 6; 7

Series A – Numbers and Patterns

Page 25

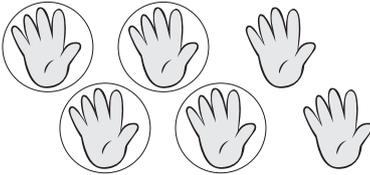
- Teacher check.
- 16; 19; 18
- 16, 17, 18, 19
16, 17, 18, 19

Page 26

- Teacher check.

2

- Answers will vary.
Possible answer:



Page 27

1

2

before	16	17	18	after
before	13	14	15	after
before	14	15	16	after
before	11	12	13	after

- Teacher check.

Page 28

- 11, 12, 13, 14
14, 15, 16, 17, 18
- 19, 18, 17, 16
15, 14, 13, 12, 11
- Observe students.

Page 29

- What to do**
Observe students.

Page 30

- What to do**
Observe students.

- What to do next**
Observe students.

Page 31

- 1, 4, 14;
1, 6, 16;
1, 7, 17;
1, 2, 12;
1, 9, 19;
2, 0, 20

Page 32

- 12; 14; 9;
20; 8; 19
- Observe students.

Page 33

- Answers will vary.

Page 34

- Observe students.
- Teacher check.
- Teacher check.

Page 35

1

12	13	14	7	8	5		
22		24	17		15		
16	17	18	27	23	24	25	14
		28		21	22	23	24

- Teacher check.

Page 36

- Answers will vary.
Possible answer:

- Answers will vary.

Page 37

- 2, 4, 24;
1, 9, 19;
2, 6, 26;
3, 0, 30;
2, 7, 27;
2, 2, 22

- Teacher check.

Page 38

1

- Answers will vary.
Sample answer:



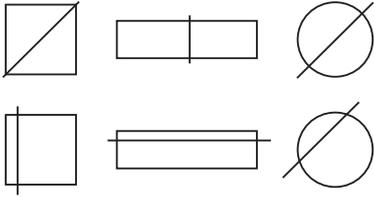
Page 39

1

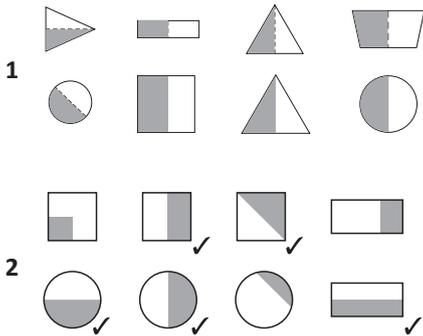
Series A – Numbers and Patterns

Page 39

2 Answers will vary.
Sample answer:



Page 40



Page 41

What to do

Teacher check.

Page 42

1 Teacher check.

2 3rd; 2nd; 1st

Page 43

What to do

Observe students.

Page 44

1 Teacher check.

2 1st: Milly 4th: Zara
8th: Sam 10th: Jon

Page 45

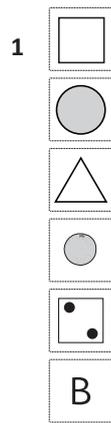
What to do

Observe students.

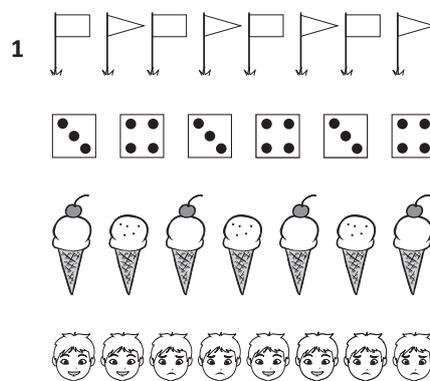
What to do next

Observe students.

Page 46



Page 47



2 Observe students.

Page 48

What to do

Teacher check.

What to do next

Teacher check.

Page 49

What to do

Observe students.

What to do now



What to do next

Observe students.

Page 50

1 2; 1; 2; 1; 2; 1
3; 2; 3; 2
1; 2; 1; 2; 1; 2



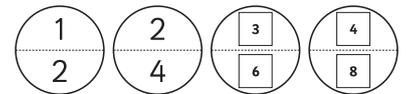
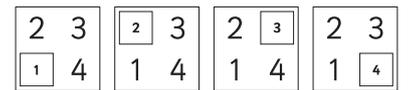
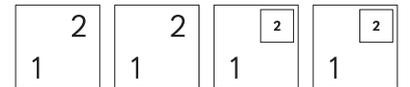
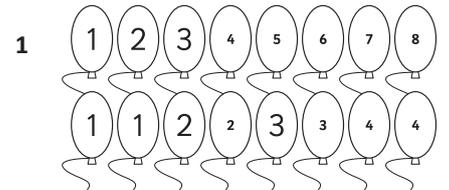
Page 51



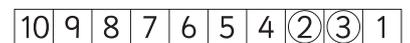
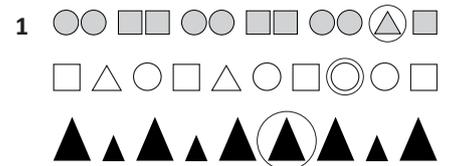
2 2; 2; 1

3 Teacher check.

Page 52



Page 53



3 Teacher check.

Series A – Numbers and Patterns

Page 54

1

; add 1

; add 2

2

add 2

add 1

Page 55

What to do

Answers will vary.

What to do next

Observe students.

Page 56

- 1 Teacher check.
- 2 Teacher check.
- 3 Teacher check.
- 4 Teacher check.

Page 57

- 1 Teacher check.

Page 58

1

Page 59

- 1 $\underline{2}$ and $\underline{3} = \underline{5}$
- $\underline{4}$ and $\underline{2} = \underline{6}$
- $\underline{3}$ and $\underline{1} = \underline{4}$
- $\underline{5} = \underline{1}$ and $\underline{4}$

Page 60

What to do

Teacher check.

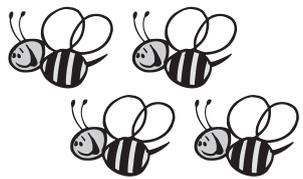
What to do next

Observe students.

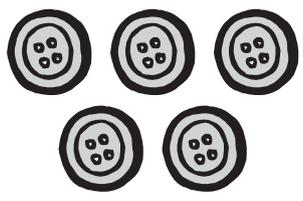
Page 61

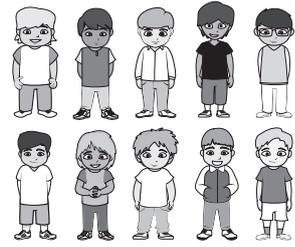
- 1 Teacher check.

1  How many?

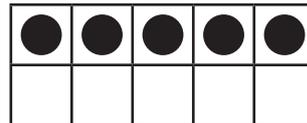
a 

b 

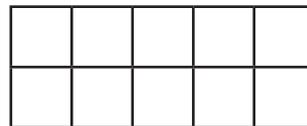
c 

d 

2  This is one way to show 5.

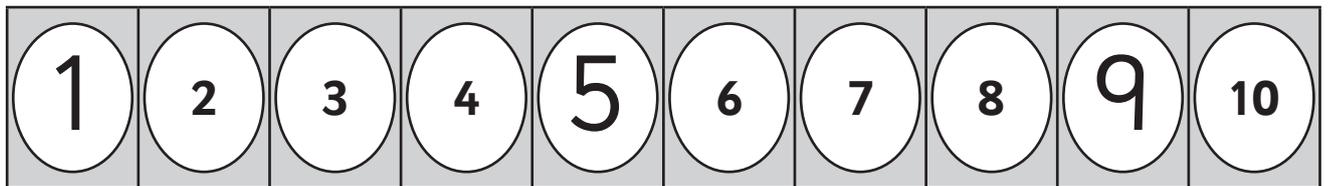


Show another way.



Teacher check.

3  Fill in the missing numbers on the track.



4  Write the numbers that come **before** and **after**.

before after

1	2	3
---	---	---

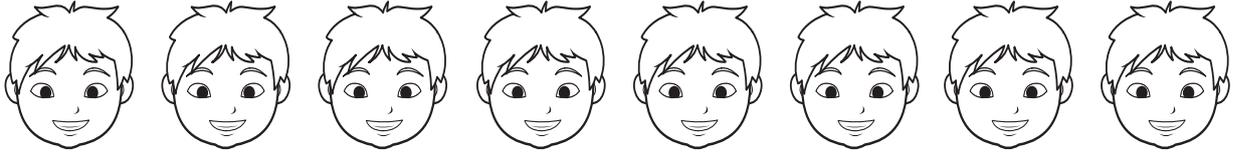
before after

7	8	9
---	---	---

5  Count on.

5	6	7	8	9	10
3	4	5	6		

6  Draw more to make 8 faces at the window.

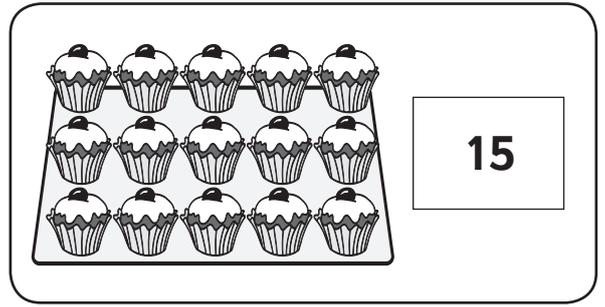
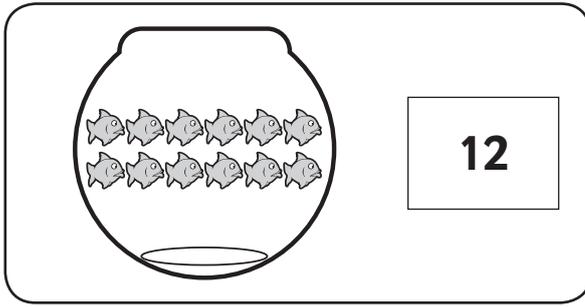


7  Count back.

10	9	8	7	6	5	4	3	2	1
-----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

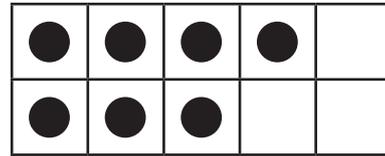
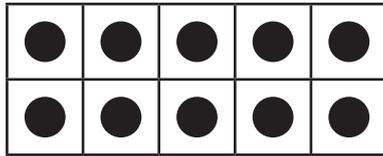
Skills and understandings	Not yet	Kind of	Got it
• Identifies how many in a collection and writes cardinal number			
• Writes numbers in order from 1–10			
• Identifies the position of a number relative to others			
• Enters and leaves the counting sequence at different points (1–10)			
• Counts backwards from 10			

1  How many?

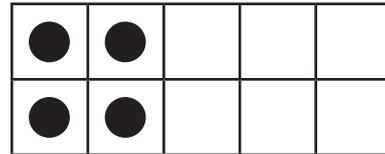
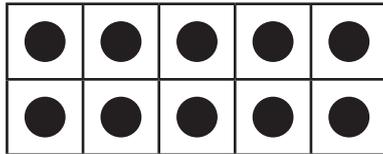


2  Draw more dots to show.

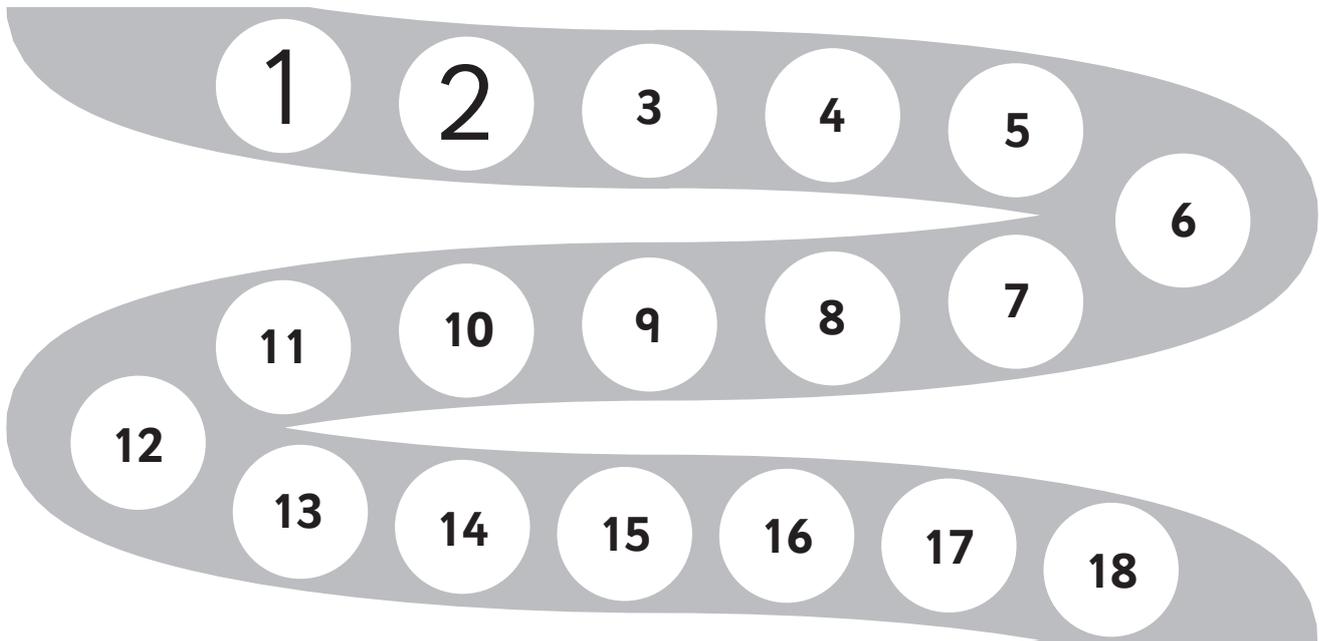
17



14



3  Fill in the missing numbers.



4  Write the numbers that come **before** and **after**.

before	after	
9	10	11

before	after	
15	16	17

5  Write a number that is **more than** 13.

Write a number that is **less than** 20.

**Teacher
check.**

6  Count on.

10	11	12	13	14	15
----	----	----	----	----	----

7  Count back.

19	18	17	16	15	14
----	----	----	----	----	----

Skills and understandings	Not yet	Kind of	Got it
• Identifies how many in a collection and writes cardinal number			
• Writes numbers in order from 1–20			
• Identifies the position of a number relative to others			
• Enters and leaves the counting sequence at different points (1–20)			
• Counts backwards from 20			

1  Fill in the missing numbers.

11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

2  Write 3 numbers that are less than me. Write 3 numbers that are more than me.

less than

19



more than

Teacher check.

3  Write the numbers that come before and after.

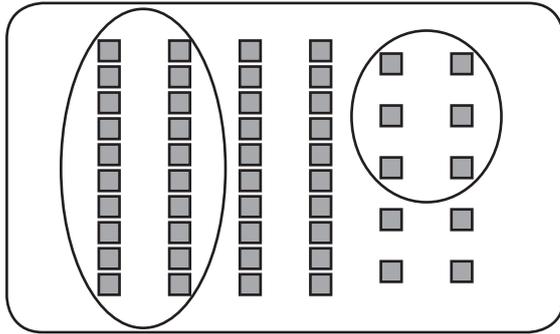
before
after

19	20	21
----	----	----

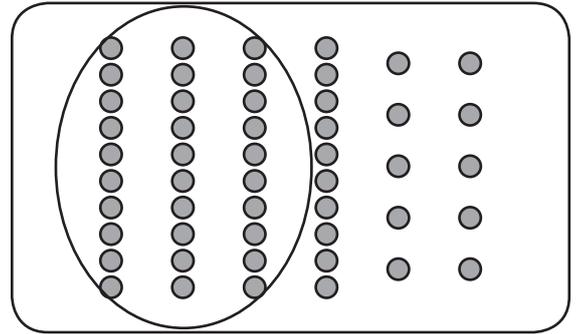
before
after

28	29	30
----	----	----

4  Circle the right number of shapes.

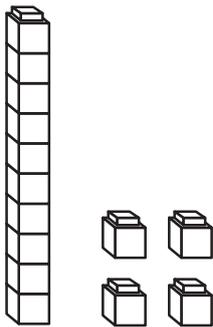


26



30

5  How many?



1

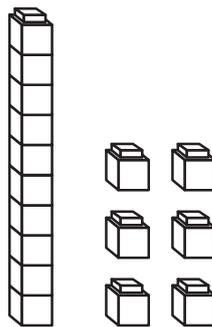
4

14

tens

ones

number



1

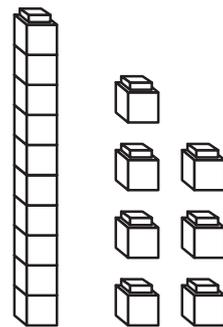
6

16

tens

ones

number



1

7

17

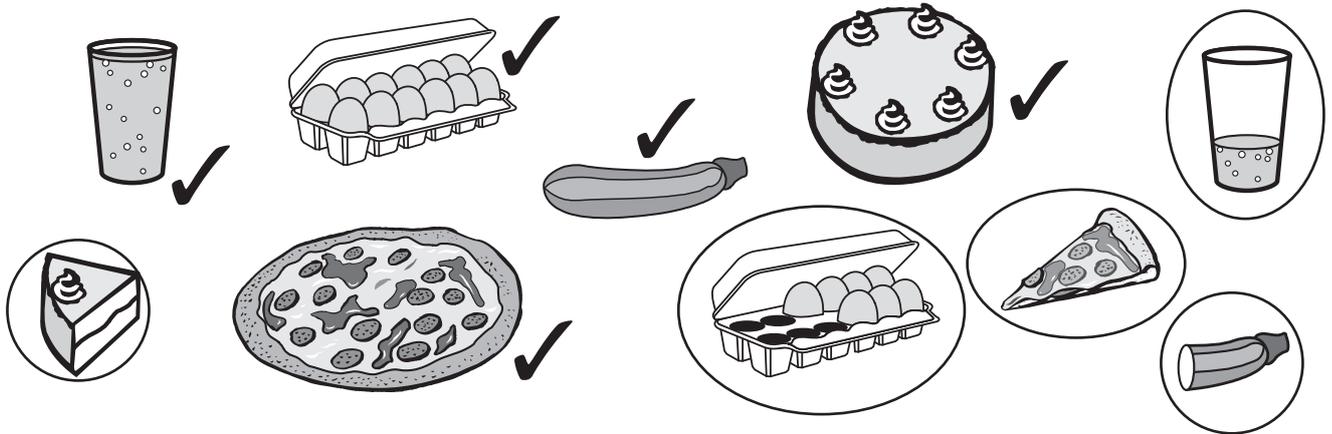
tens

ones

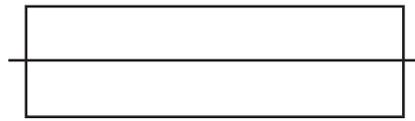
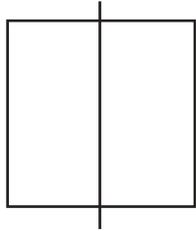
number

Skills and understandings	Not yet	Kind of	Got it
• Orders and writes numbers, 1–30			
• Identifies the position of a number relative to others, bridging decades			
• Groups objects into tens and ones to model 2-digit numbers (to 30)			
• Writes 2-digit numbers using correct place values (to 30)			

1   Tick the wholes. Circle the parts.

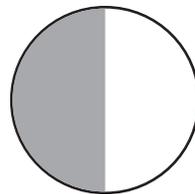


2  Draw lines to cut these shapes into 2 equal parts.

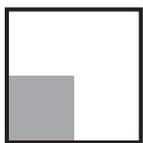


or equivalent

3  Colour 1 half of the circle.



4  Tick the shapes that have 1 half shaded.

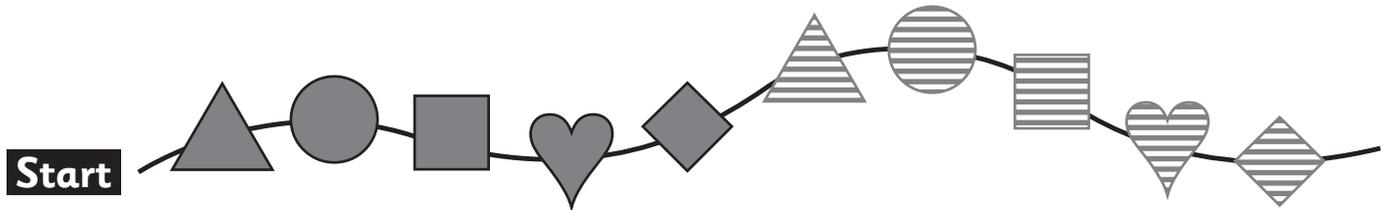
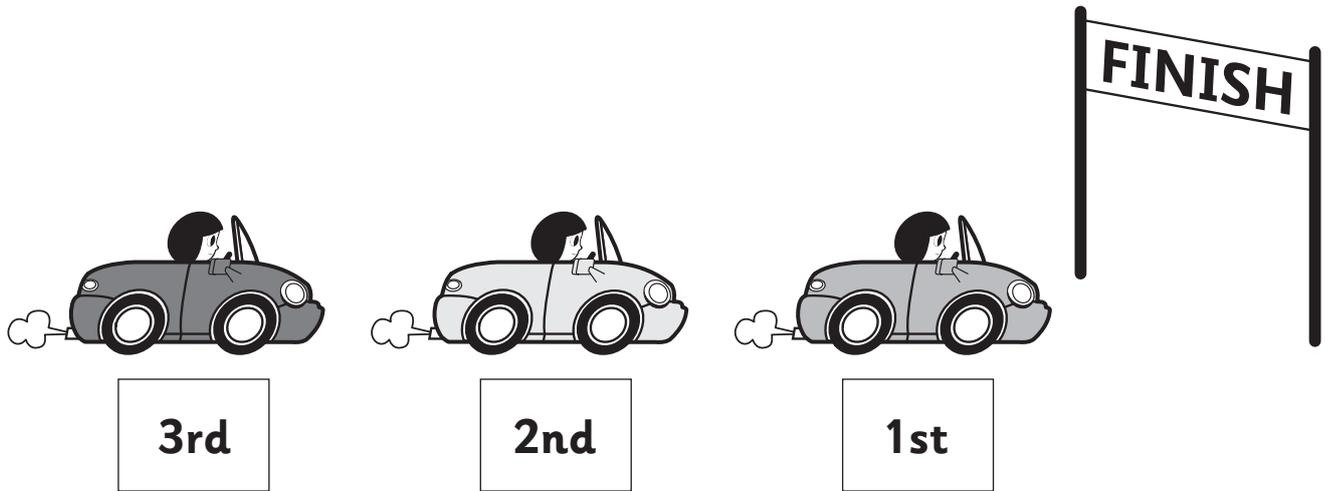


Skills and understandings	Not yet	Kind of	Got it
• Identifies parts and wholes			
• Identifies equal and non-equal parts (shape or object)			
• Recognises, creates and records halves (shape or object)			

Ordinal numbers

Name _____

- 1  Look at this race. Write the ordinal numbers to show the order.



- 2  What position?

The  is 2nd.

The  is 8th.

The  is 6th.

The  is 1st.



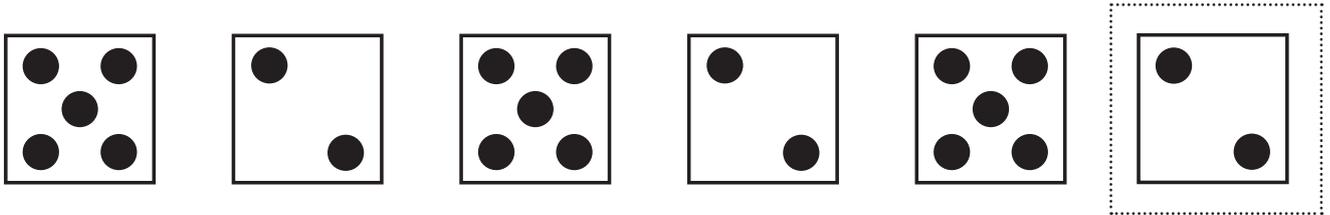
1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th

Skills and understandings	Not yet	Kind of	Got it
• Recognises 1st, 2nd and 3rd			
• Recognises 1st to 10th			
• Identifies position of objects in lines			

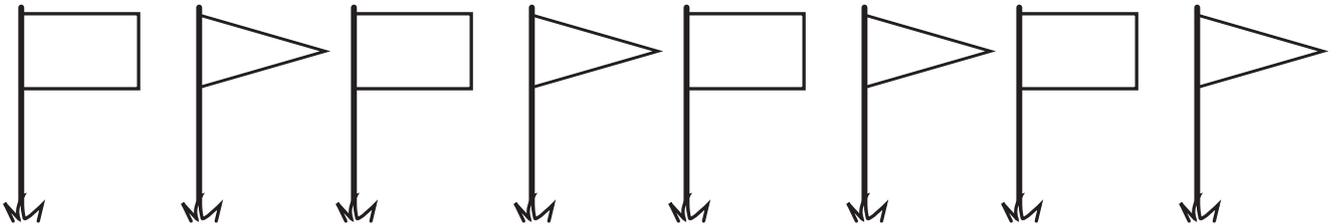
Patterns

Name _____

- 1   Say each pattern out loud. What comes next? Draw it.



- 2  Draw the missing parts.



- 3   Can you spot the mistake in this pattern? Circle it.



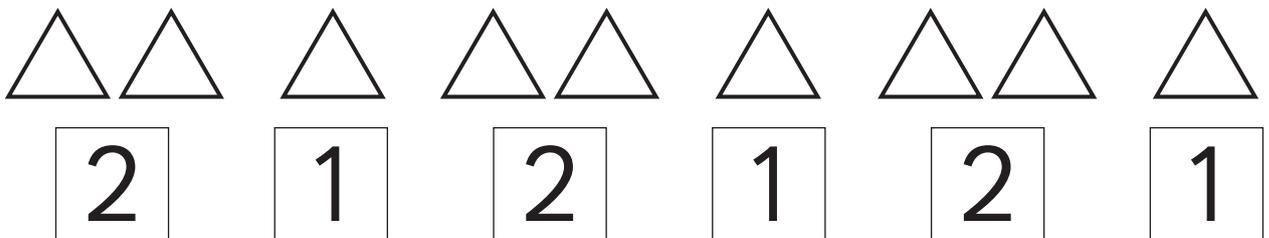
Patterns

Name _____

- 4  Draw your own pattern using   

Teacher check.

- 5  Draw triangles to match.



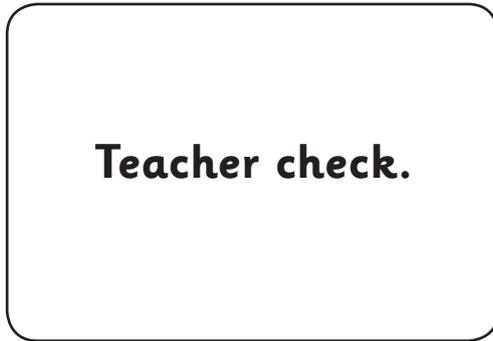
- 6  Continue the number pattern.



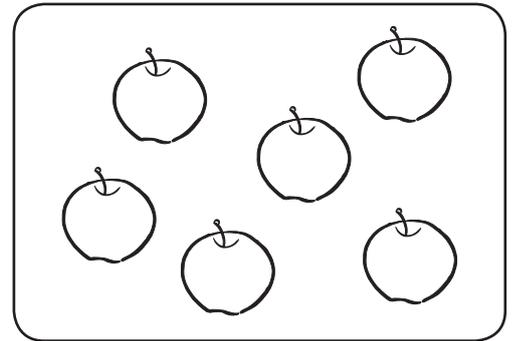
or 3, 3, 4, 4

Skills and understandings	Not yet	Kind of	Got it
• Continues and creates simple repeating patterns			
• Spots errors in patterns			
• Continues and creates simple number patterns			

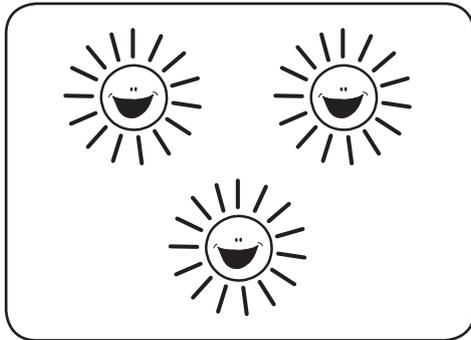
- 1  Draw pictures in the empty box to make the groups the same.



is the same as



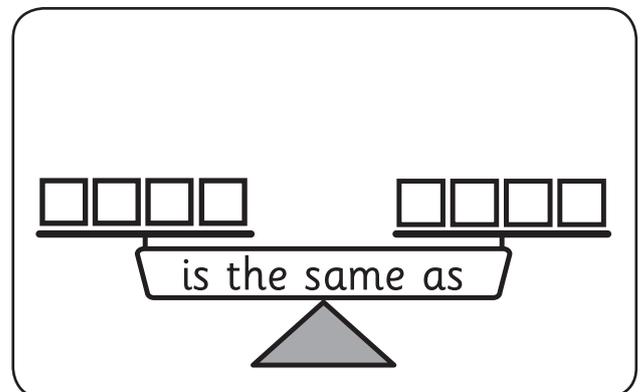
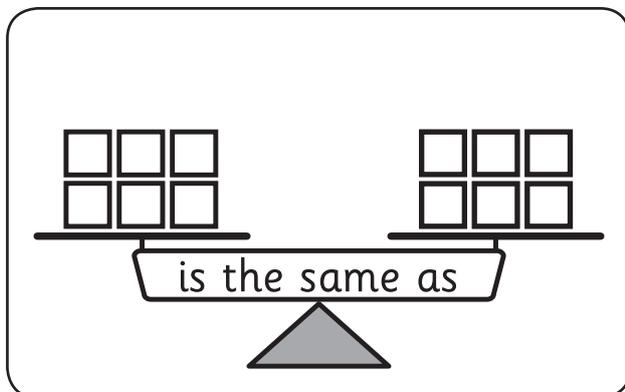
- 2  Draw pictures to make the groups NOT the same.



is **not** the same as



- 3  Draw blocks to make the scales balance. This means the sides have the **same** amounts of blocks. They are **equal**.



Skills and understandings	Not yet	Kind of	Got it
<ul style="list-style-type: none"> Understands that 'the same as' expresses equality 			

Series A – Numbers and Patterns – Student Progress Record

Name _____ Class _____ Date _____

What went well: _____

What I need to improve: _____



Series A – Numbers and Patterns – Student Progress Record

Name _____ Class _____ Date _____

What went well: _____

What I need to improve: _____

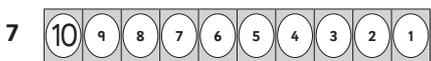
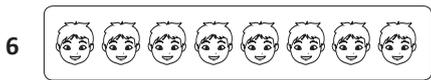
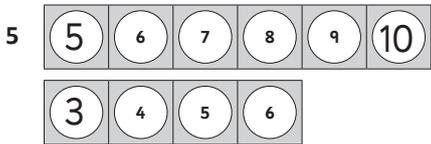
Series A – Numbers and Patterns

ASSESSMENT ANSWERS

Pages 6–7

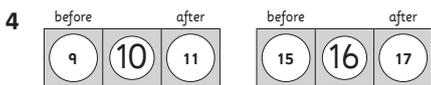
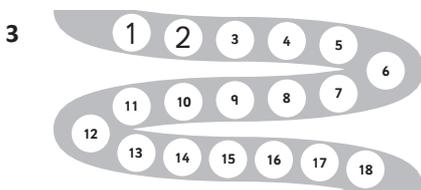
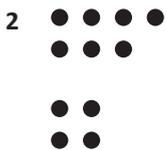
- 1a 4
b 1
c 5
d 10

2 Teacher check.



Pages 8–9

1 12; 15



5 Teacher check.

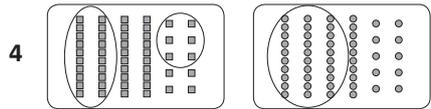


Pages 10–11

1

11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

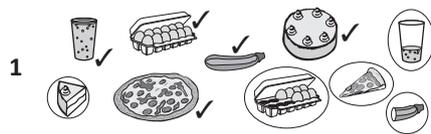
2 Teacher check.



5

1	4	14	1	6	16	1	7	17
tens	ones	number	tens	ones	number	tens	ones	number

Page 12



or equivalent



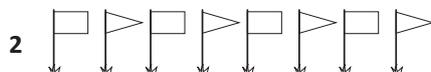
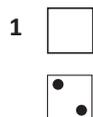
Page 13

1 3rd; 2nd; 1st

2 2nd; 8th

6th; 1st

Pages 14–15



4 Teacher check.

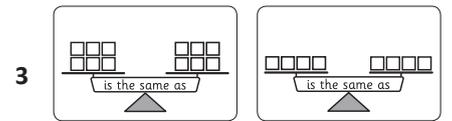


or 3, 3, 4, 4

Page 16

1 Teacher check.

2 Teacher check.



Series A – Numbers and Patterns

Topic	Reference	Strand	Objective
Numbers to 10	ELG1.1	Number	Count reliably with numbers from 1–20.
Numbers to 10	ELG1.2	Number	Place numbers 1–20 in order.
Numbers to 10	ELG1.3	Number	Say which number is one more or one less than a given number.
Numbers to 20	ELG1.1	Number	Count reliably with numbers from 1–20.
Numbers to 20	ELG1.2	Number	Place numbers 1–20 in order.
Numbers to 20	ELG1.3	Number	Say which number is one more or one less than a given number.
Numbers to 30	ELG1.1	Number	Count reliably with numbers from 1–20.
Numbers to 30	ELG1.2	Number	Place numbers 1–20 in order.
Numbers to 30	ELG1.3	Number	Say which number is one more or one less than a given number.
Ordinal Numbers	ELG1.1	Number	Count reliably with numbers from 1–20.
Ordinal Numbers	ELG1.2	Number	Place numbers 1–20 in order.
Ordinal Numbers	ELG1.3	Number	Say which number is one more or one less than a given number.
Fractions	ELG1.5	Number	They solve problems, including doubling, halving and sharing.
Number Relationships	ELG1.5	Number	They solve problems, including doubling, halving and sharing.
Patterns	ELG2.2	Shape, Space and Measure	Recognise, create and describe patterns.