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Mrs Angie Motshekga, Minister of Basic Education

These workbooks have been developed for the children of South Africa under the leadership of the Minister of Basic Education, Mrs Angie Motshekga, and the Deputy Minister of Basic Education, Dr Reginah Mhaule.

The Rainbow Workbooks form part of the Department of Basic Education's range of interventions aimed at improving the performance of South African learners in the first six grades. As one of the priorities of the Government's Plan of Action, this project has been made possible by the generous funding of the National Treasury. This has enabled the Department to make these workbooks, in all the official languages, available at no cost.

should do.

We sincerely hope that children will enjoy working through the book as they grow and learn, and that you, the teacher, will share their pleasure.

these workbooks.

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Dr Reginah Mhaule, Deputy Minister of Basic Education

We hope that teachers will find these workbooks useful in their everyday teaching and in ensuring that their learners cover the curriculum. We have taken care to quide the teacher through each of the activities by the inclusion of icons that indicate what it is that the learner

We wish you and your learners every success in using

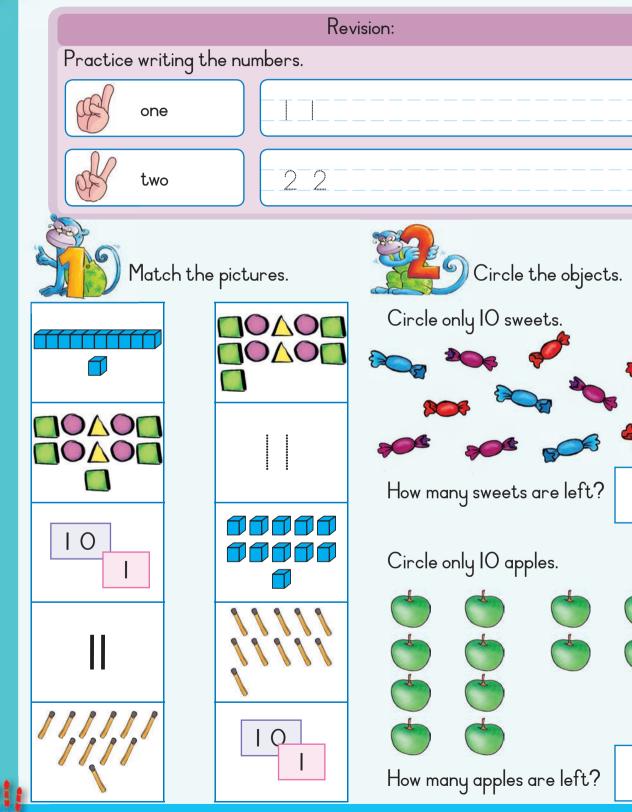
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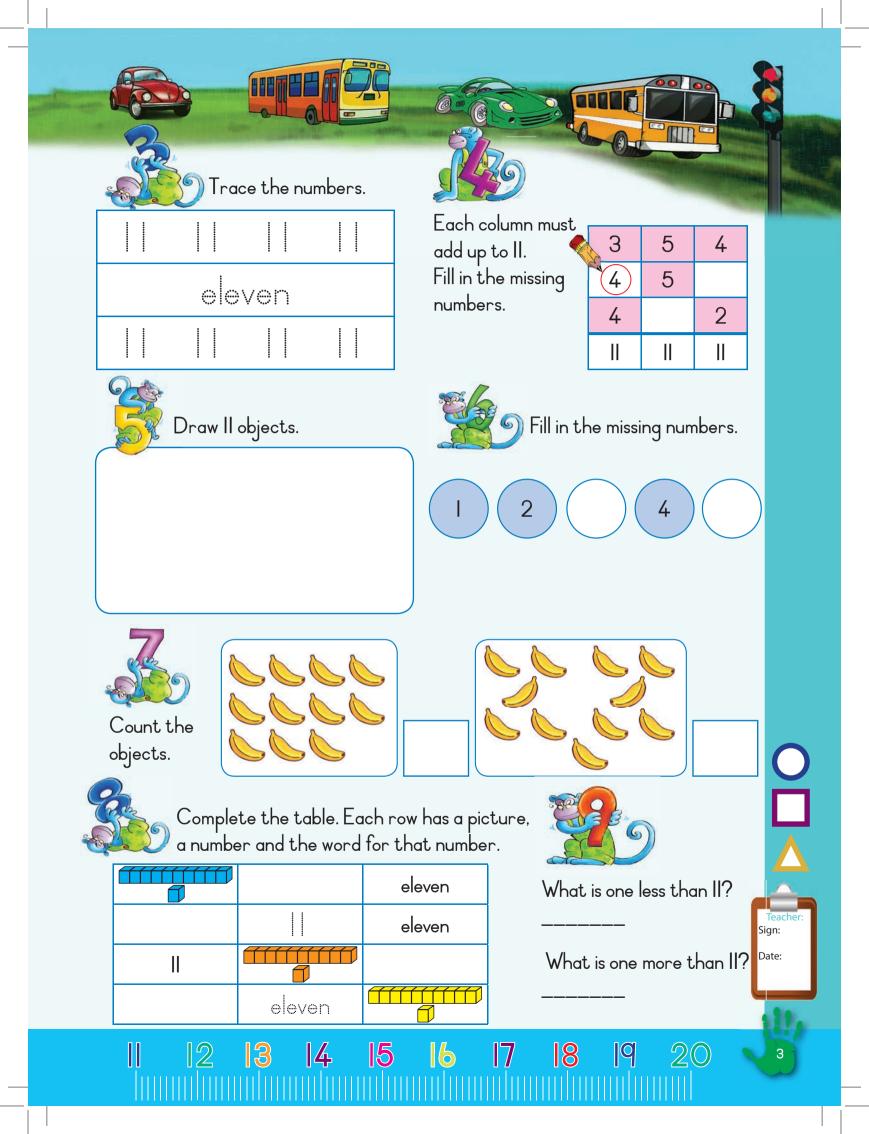
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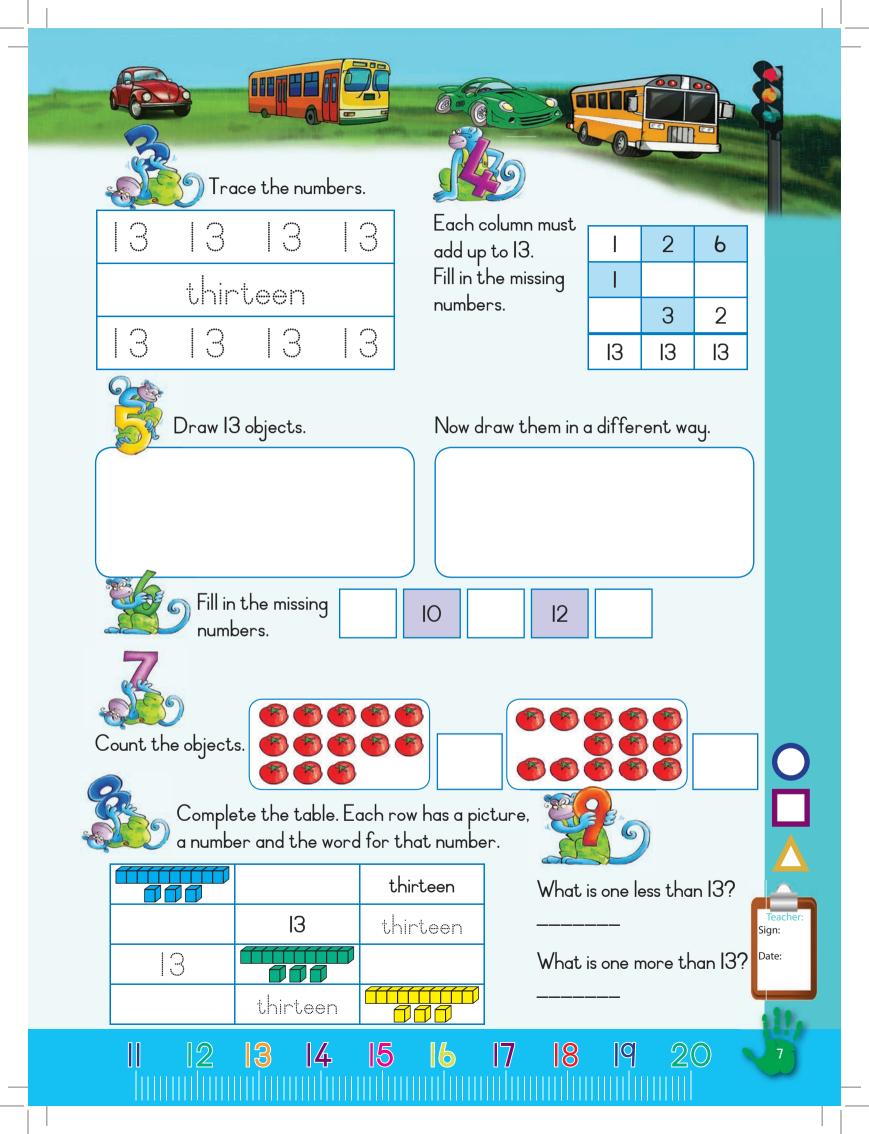
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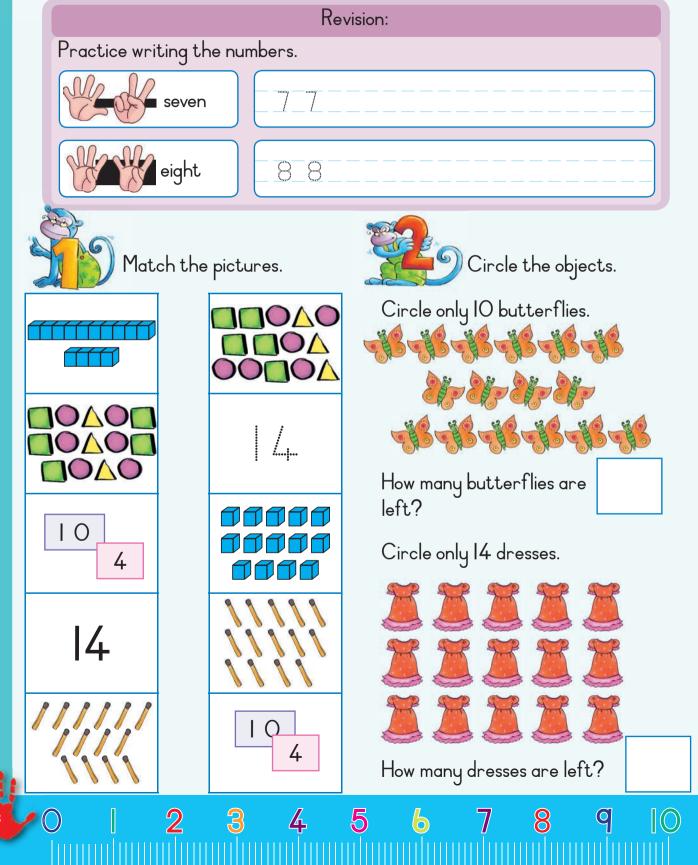
Trace the numbers.						
12 12 12 12	Each column must add up to 12. 76					
twelve	Fill in the missing44numbers.32					
2  2  2  2	12 12 12					
Draw 12 objects.	Fill in the missing numbers.					
	3     5        8     II					
Count the objects.						
Complete the table. Each row has a picture, a number and the word for that number.						
	twelve What is one less than 12?					
twelve	twelve        2     What is one more than I2?					
II 12 13 14 15	5 16 17 18 19 20 5					

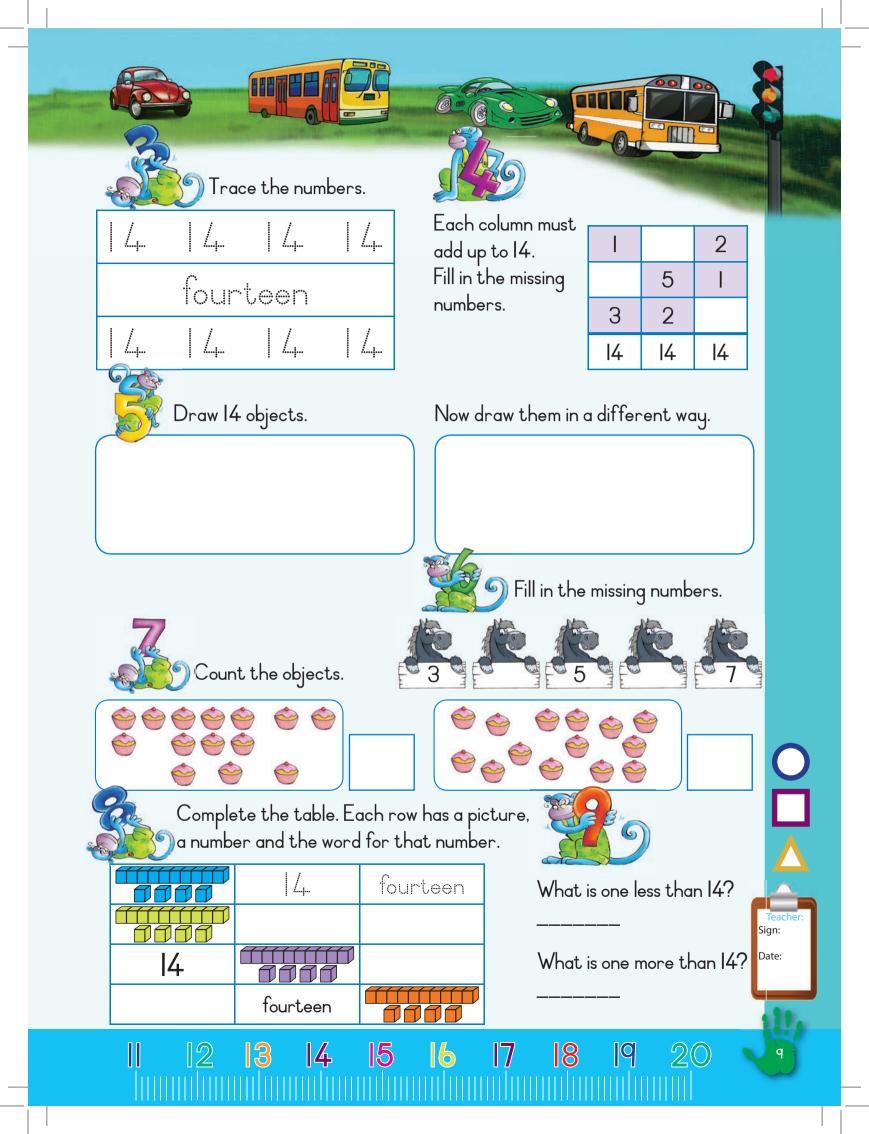




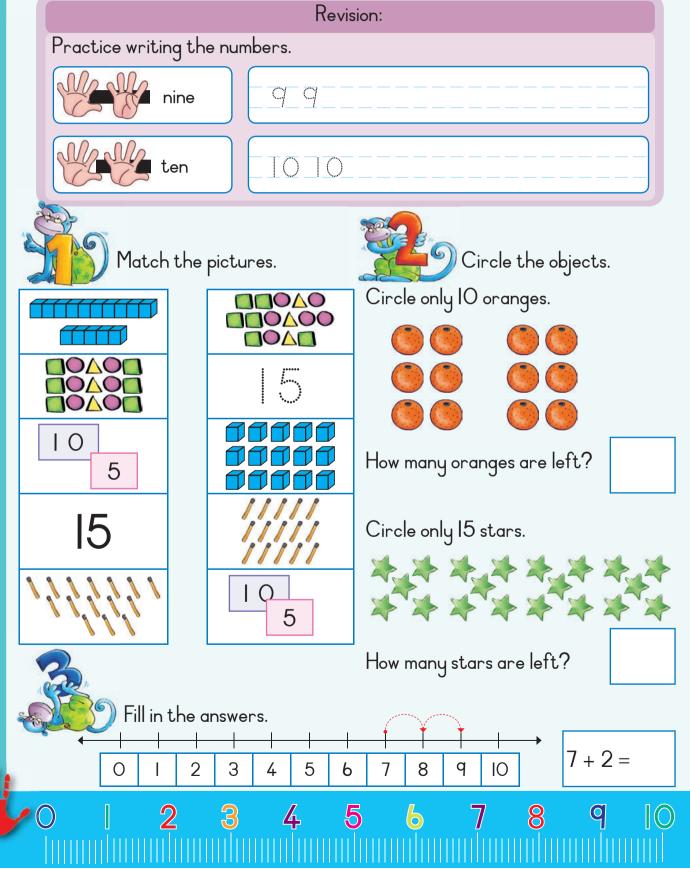


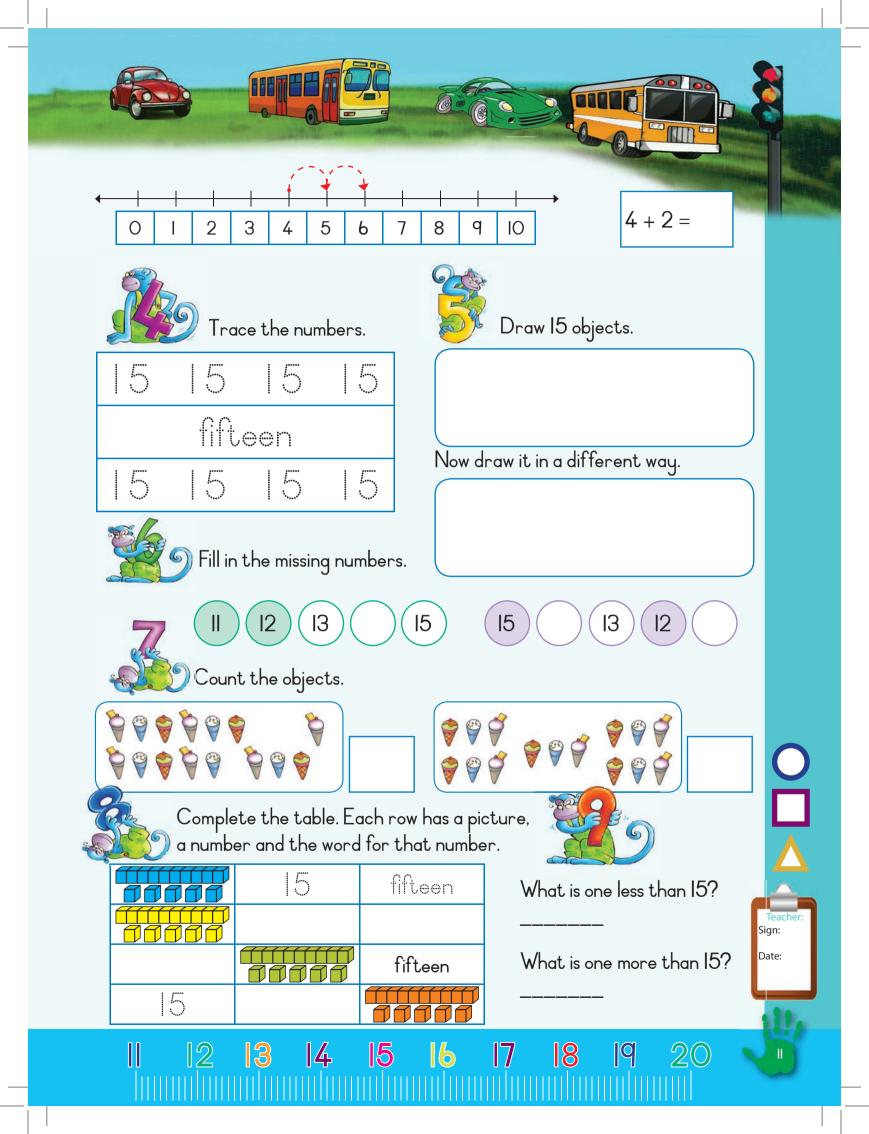
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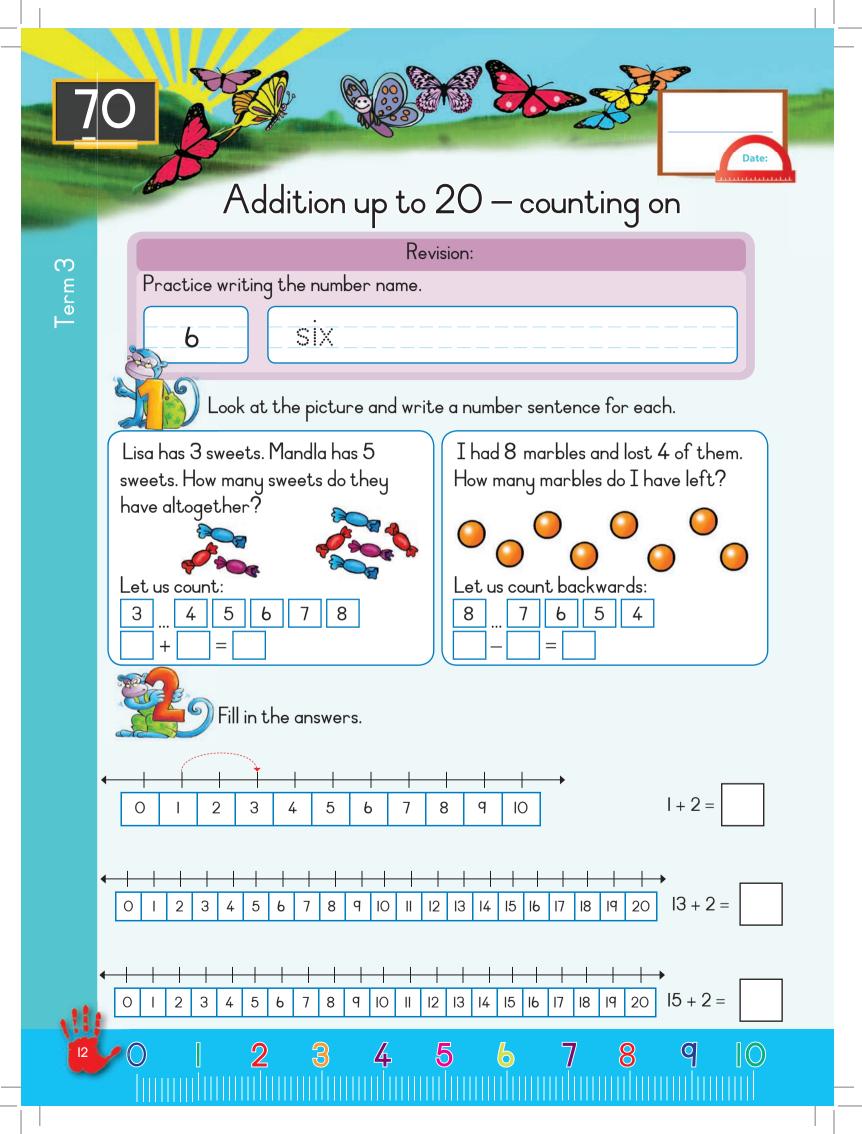


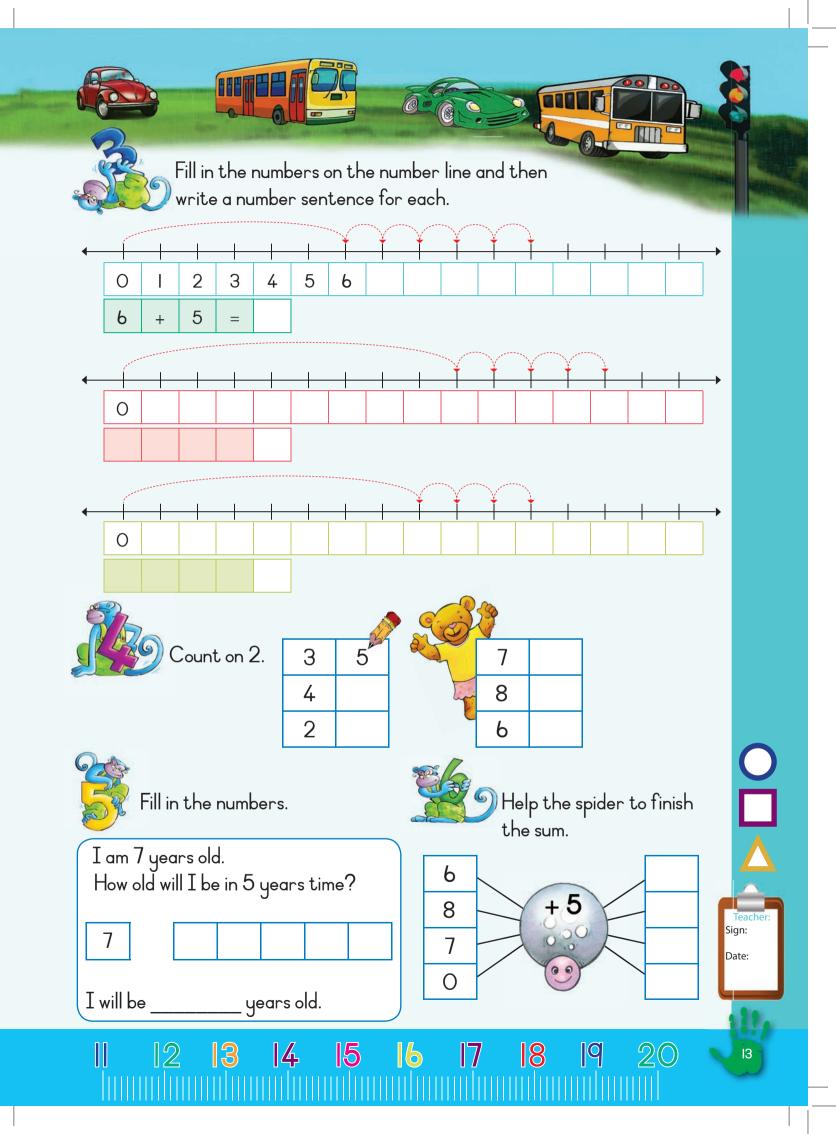


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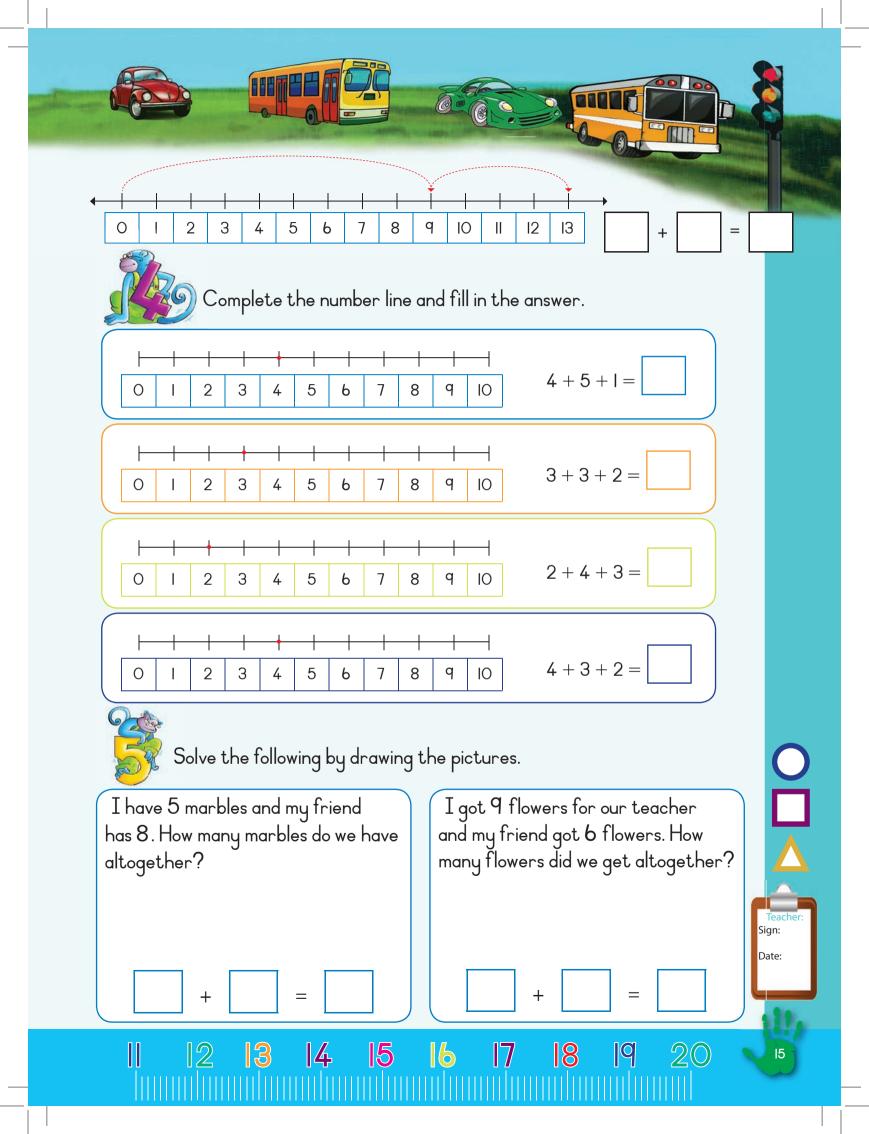


# Addition — building up and breaking down numbers up to IO

Term 3

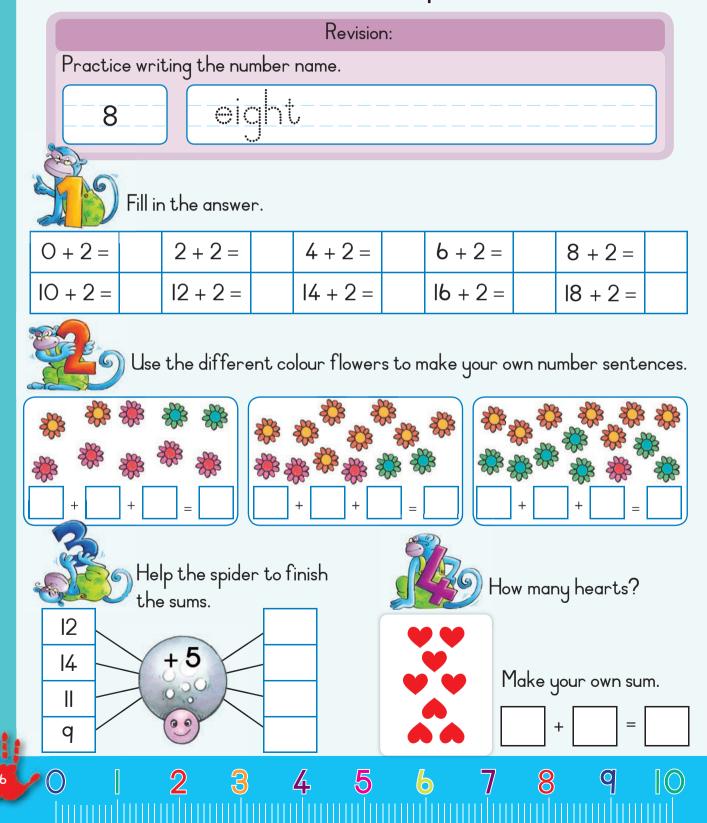
Date

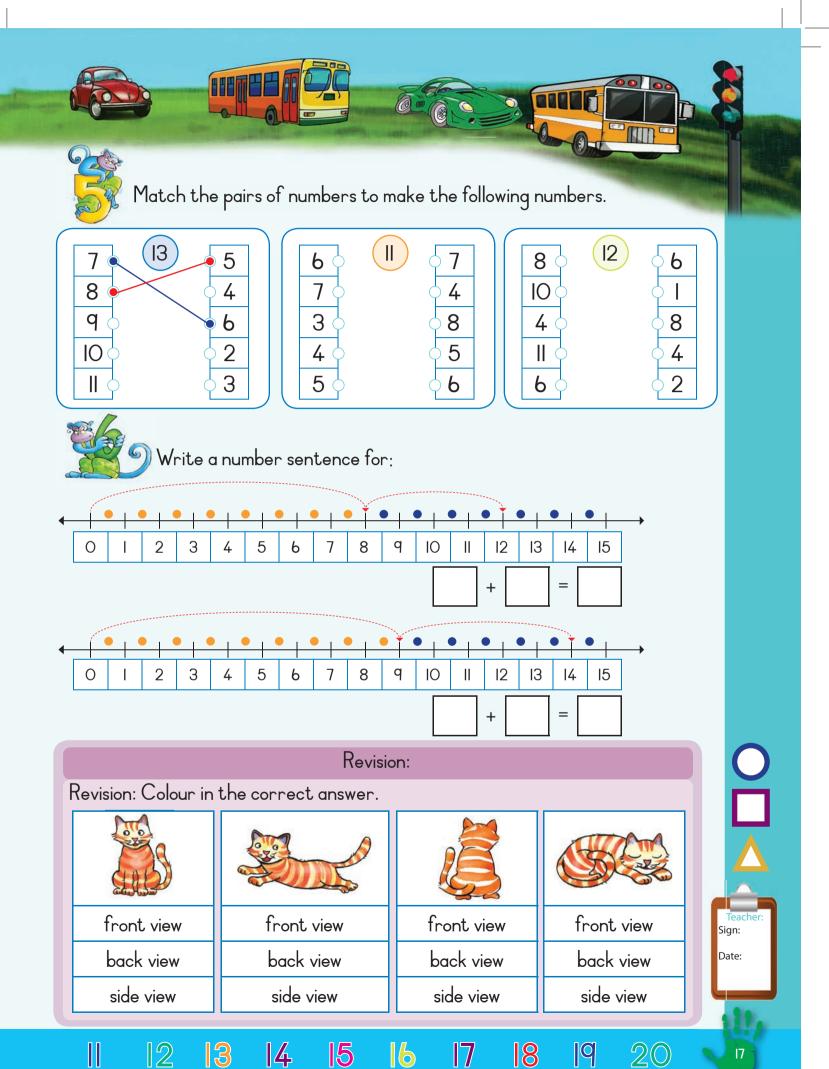
Revision: Practice writing the number name. 7 Fill in the answer. Colour to show the following. 3 + d 3 + 3 = 4 + 8 0 + 5 = 5 + 76+6 3 + 2 + 1 =7 + 5 Write a sum for: 2 +3 5 8 q 10 12 0 4 7 6 5 Ю 12 +7 q 2 З 8 Ш 4  $\cap$ 6 5 8 2 3 4 9 6 7



# Addition — building up and breaking down numbers up to 20

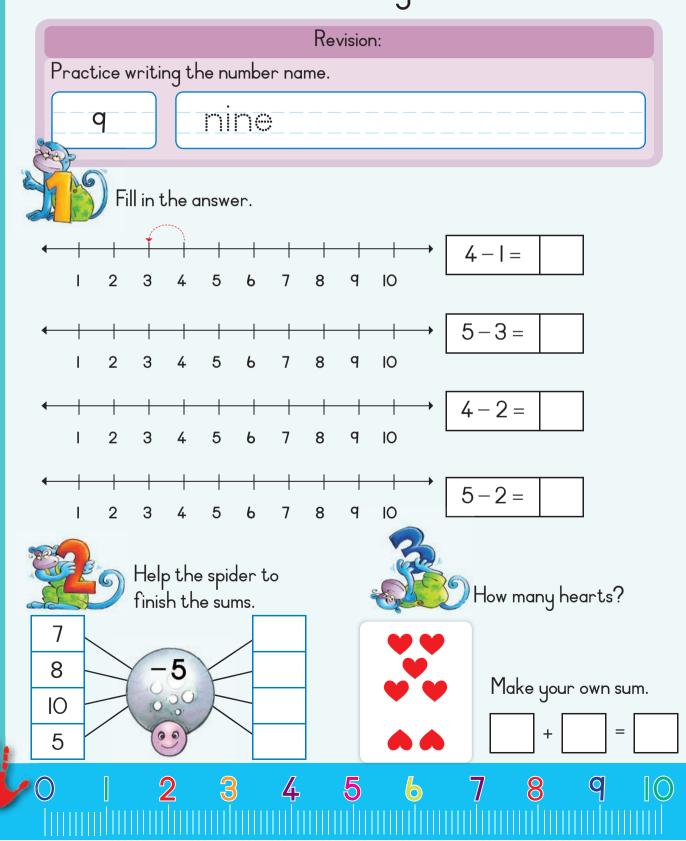
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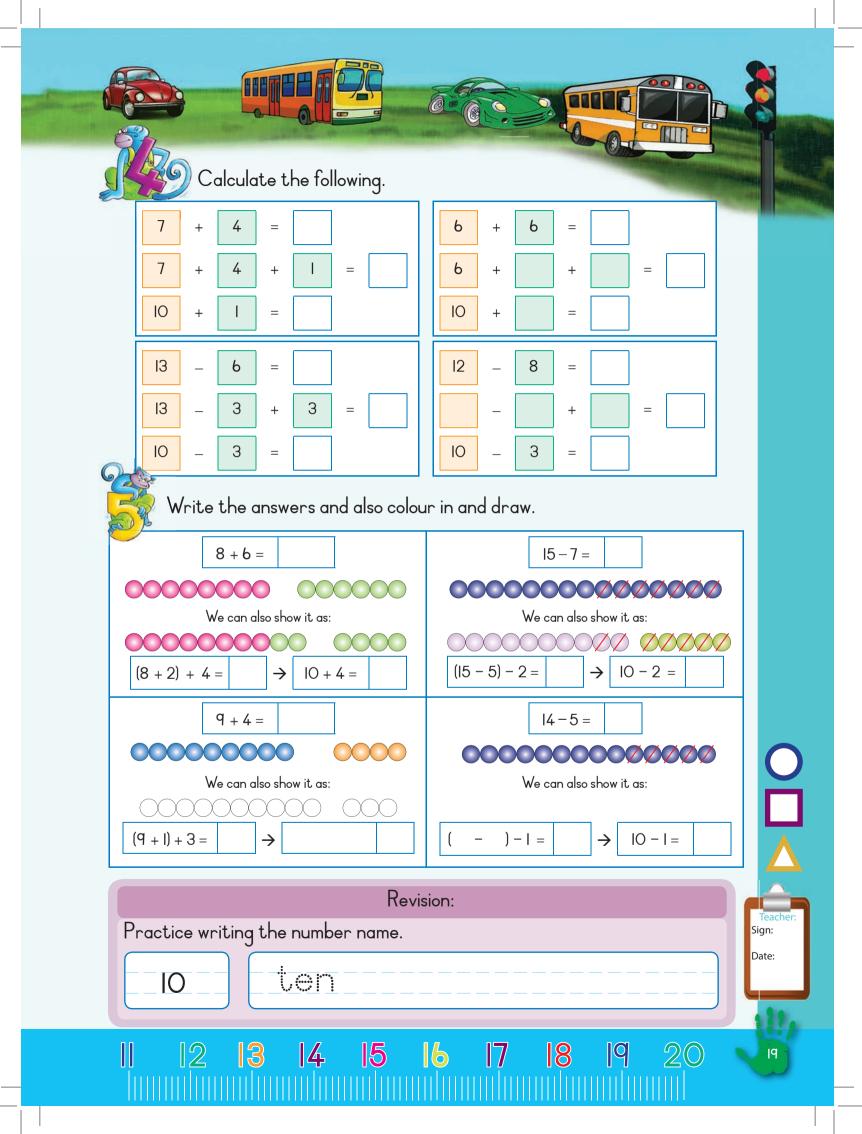


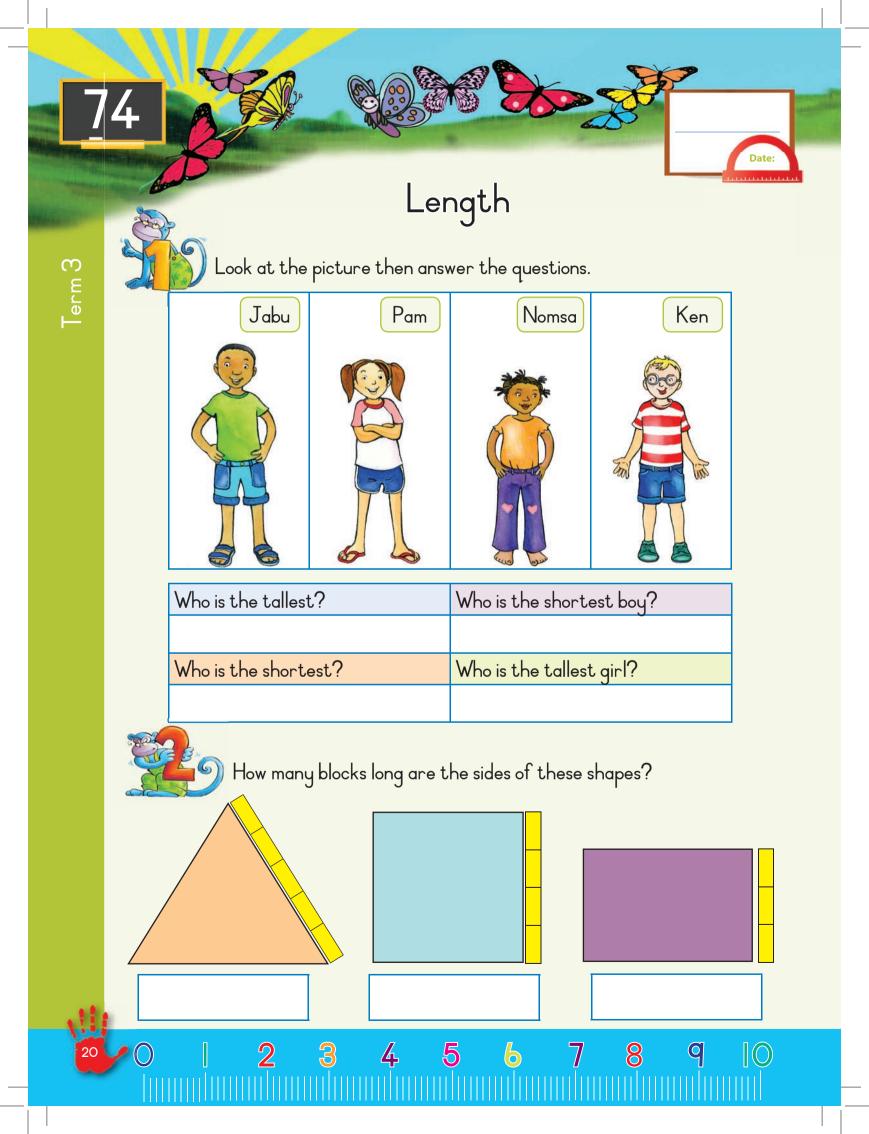


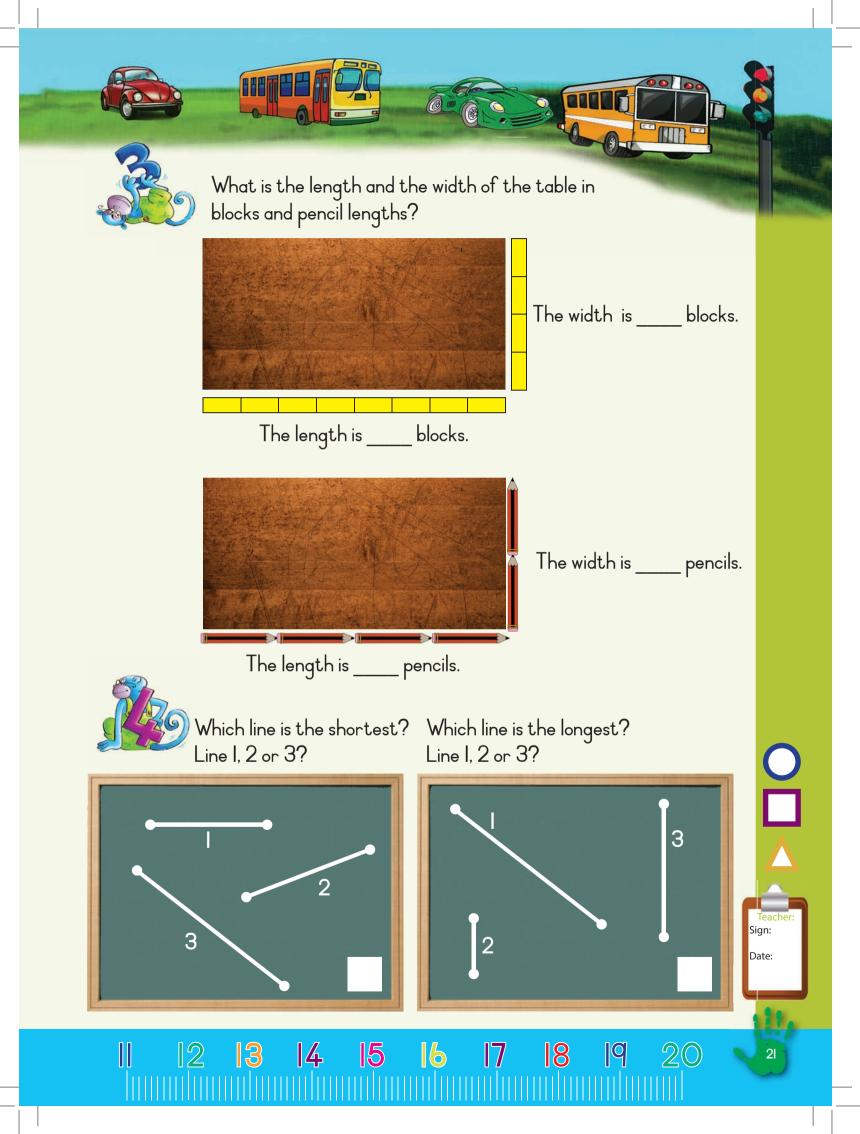
### Addition and subtraction — building up and breaking down

Date:









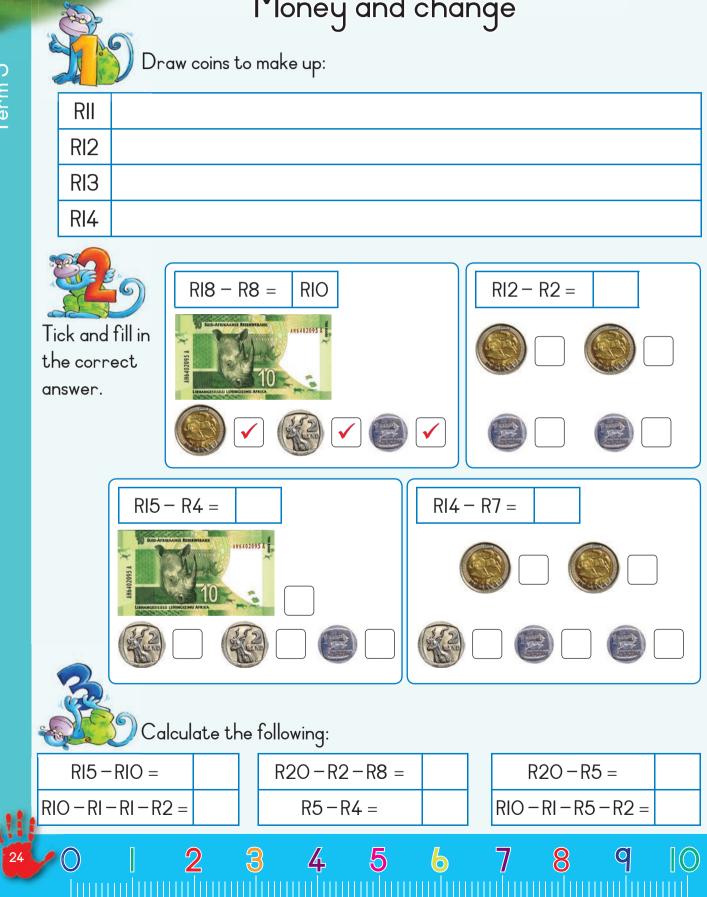


Date



Calc	ulate the f	ollowing.			
R5 + RIO =	=	R5 + R2 + R8	=	RIO + RIO =	
R3 + RIO + R2 -	+ R2 =	R5 + R7 + RI + R	85 =	RIO + RI + R5 + R2 =	
Solve the following:					
I have a R2 coin and a R5 coin. My friend has three R2 coins. Who has the most money? I have a R5 and a RI coin. My friend has three R5 coins. Who has the most money?					
I hav I pay	ve RI5: Change		Calculate	the following:	
R4 + R7 = RII	R4	I have RI5	. I buu a pa	acket of chips for R6.	
R6 + R9=		How much n	noney do I	have left?	
R6 + R9= R8 + R3 =		How much r	noney do I	have left?	
R6 + R 9 = R8 + R3 = R2 + RII =		How much r	noney do I	have left?	C
R6 + R9= R8 + R3 =		How much r	noney do I	have left?	
R6 + R 9 = R8 + R3 = R2 + RII =		How much r	noney do I	have left?	
R6 + R9 = R8 + R3 = R2 + RII = R3 + R8 =		How much n	lake it R2	have left?	
R6 + R 9 = R8 + R3 = R2 + RII = R3 + R8 = R6 + R8 =		How much n	noney do I	have left?	C C C C C C C C C C C C C C C C C C C
R6 + R9 = R8 + R3 = R2 + RII = R3 + R8 = R6 + R8 = R0 + R2 =		How much n	noney do I lake it R2	have left?	
R6 + R 9 =         R8 + R3 =         R2 + RII =         R3 + R8 =         R6 + R8 =         R0 + R2 =         R2 + R2 =		How much n	noney do I lake it R2 R4	have left?	Sign:

### Money and change





Calculate the following.

I have RI5. I buy for:	How much do I have left?
R2 and R4 =	R9
R8 and R4 =	
RI2 and R2 =	
R5 and R5 =	
R8 and R7 =	
RIO and R2 =	
R8 and $R2 =$	
R6 and $R2 =$	
R4 and R2 =	
R2 and R2 =	
R9 and R6 =	
RIO and R2 =	

0.00

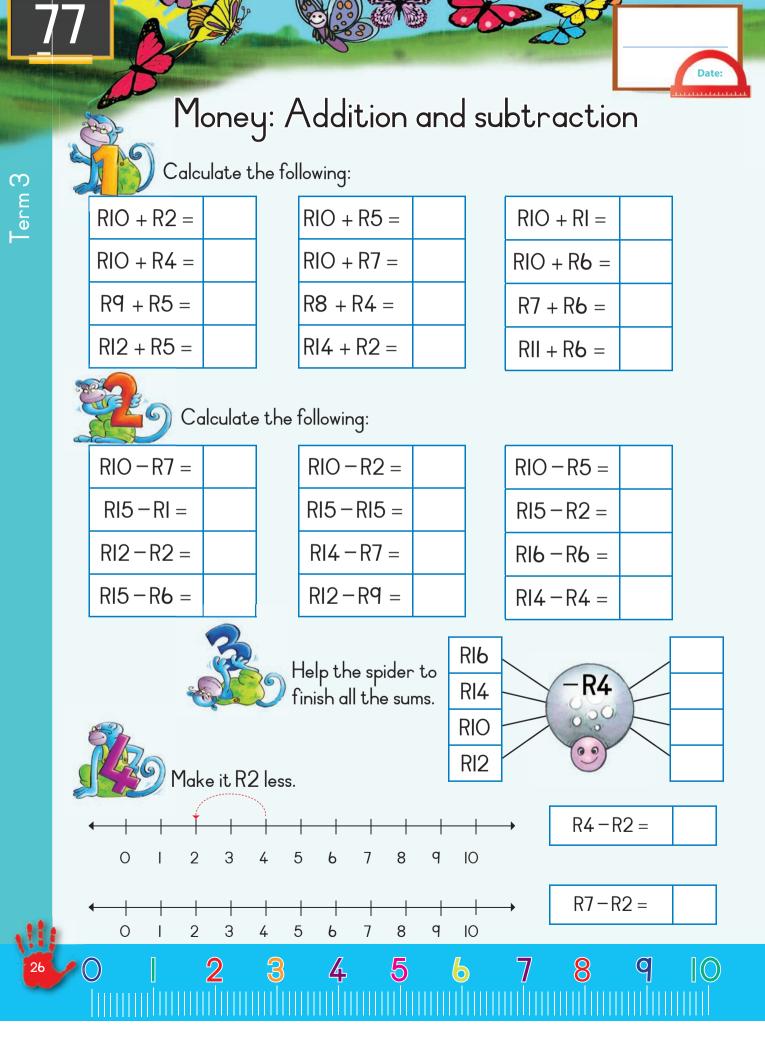


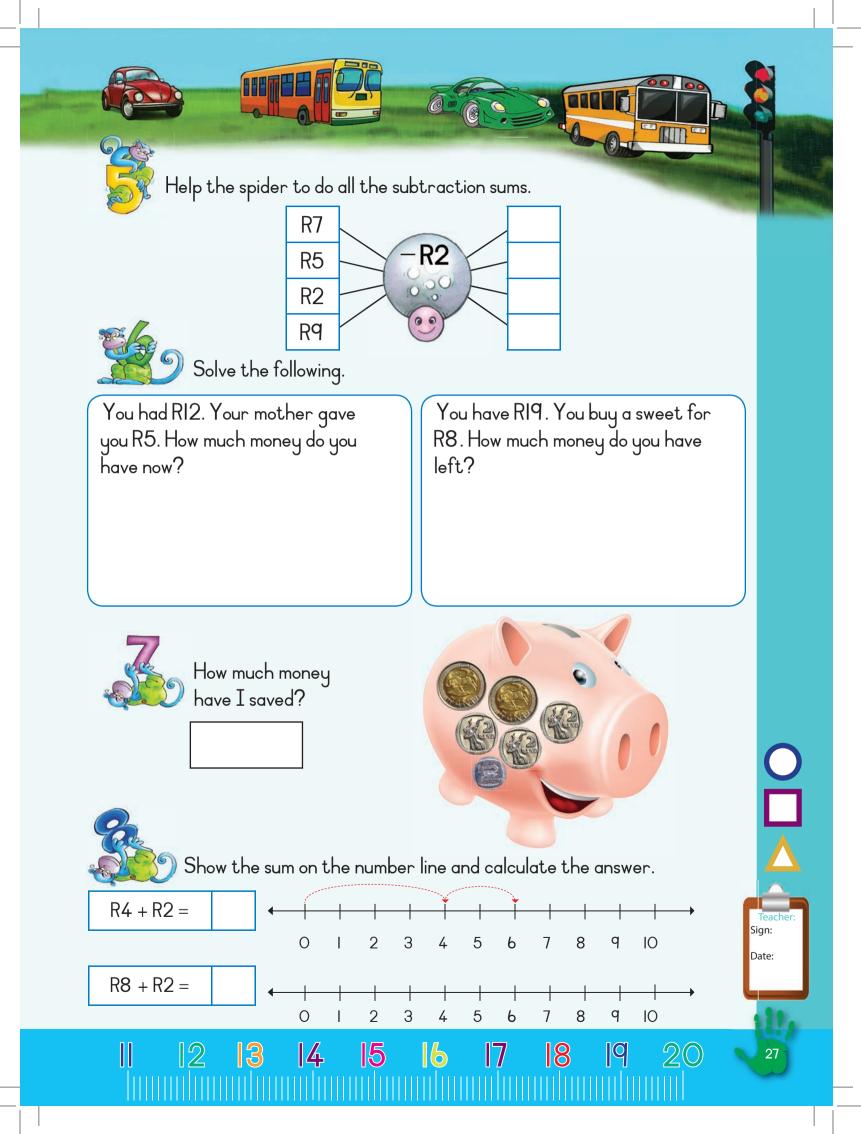
I have RI5. I buy a bag of sweets for RII. Make a drawing to show how much money you have left.

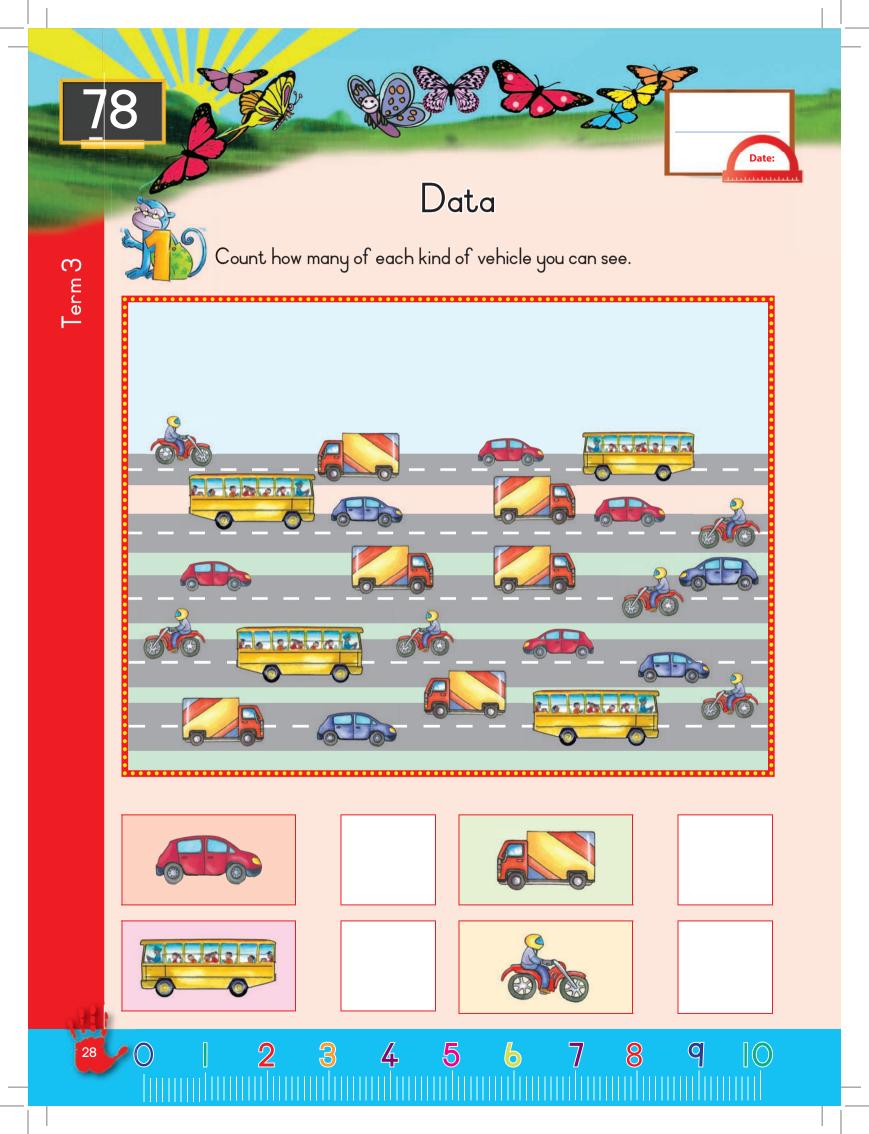




20





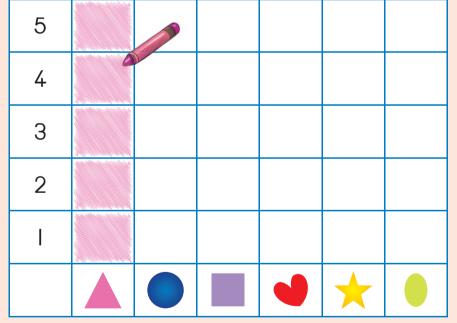




Count the shapes and colour in on the chart below to show how many there are of each. Then answer the questions.

0-0-

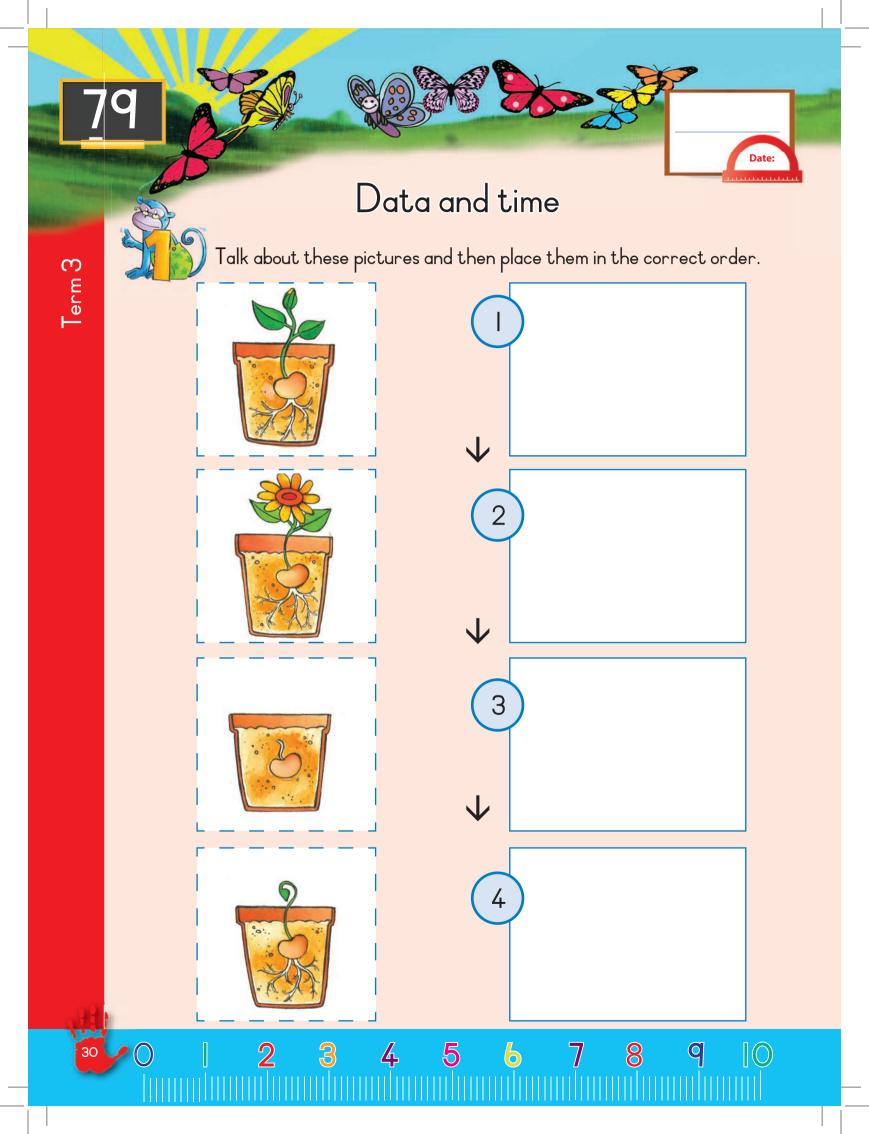


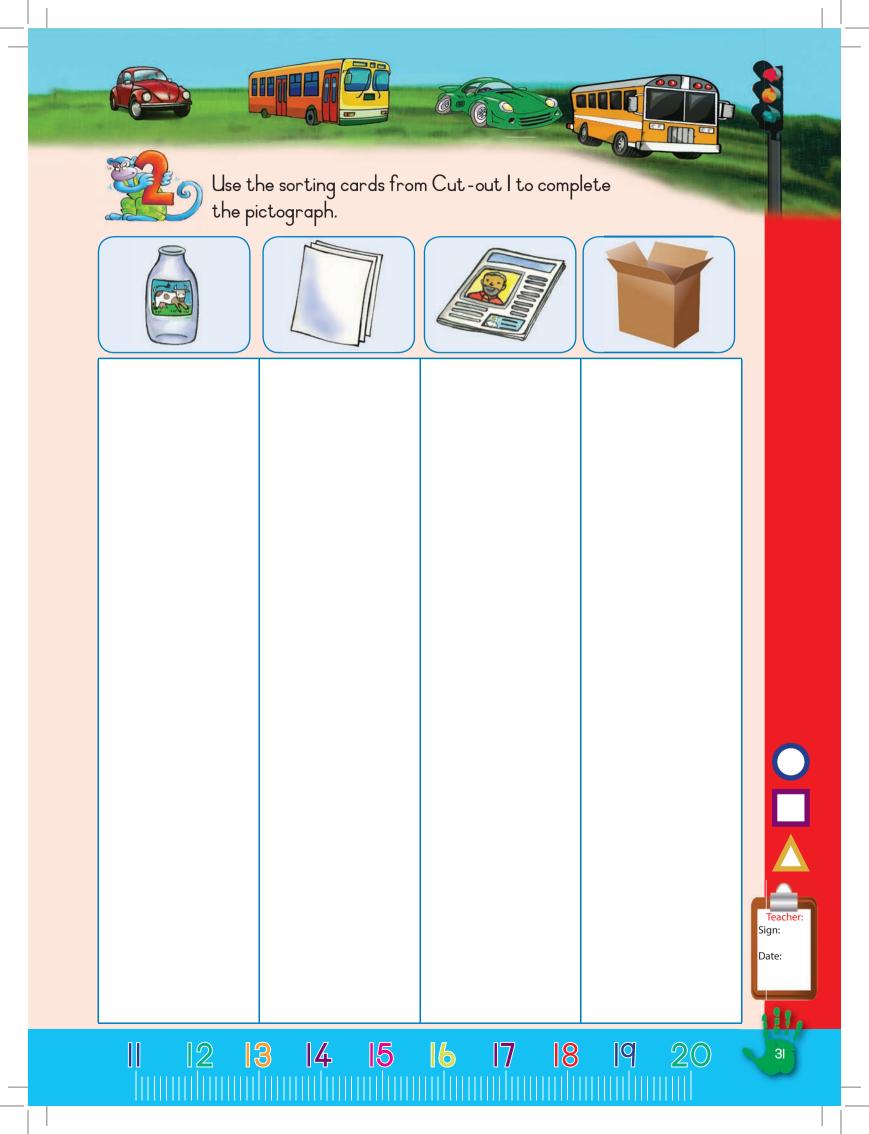


The	are the most.
The	are the least.

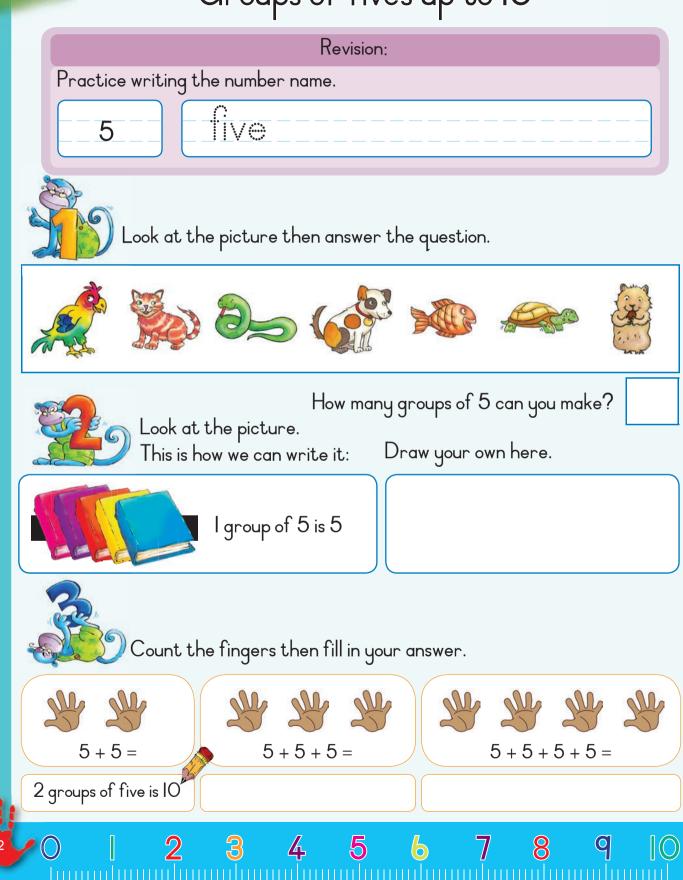
|4

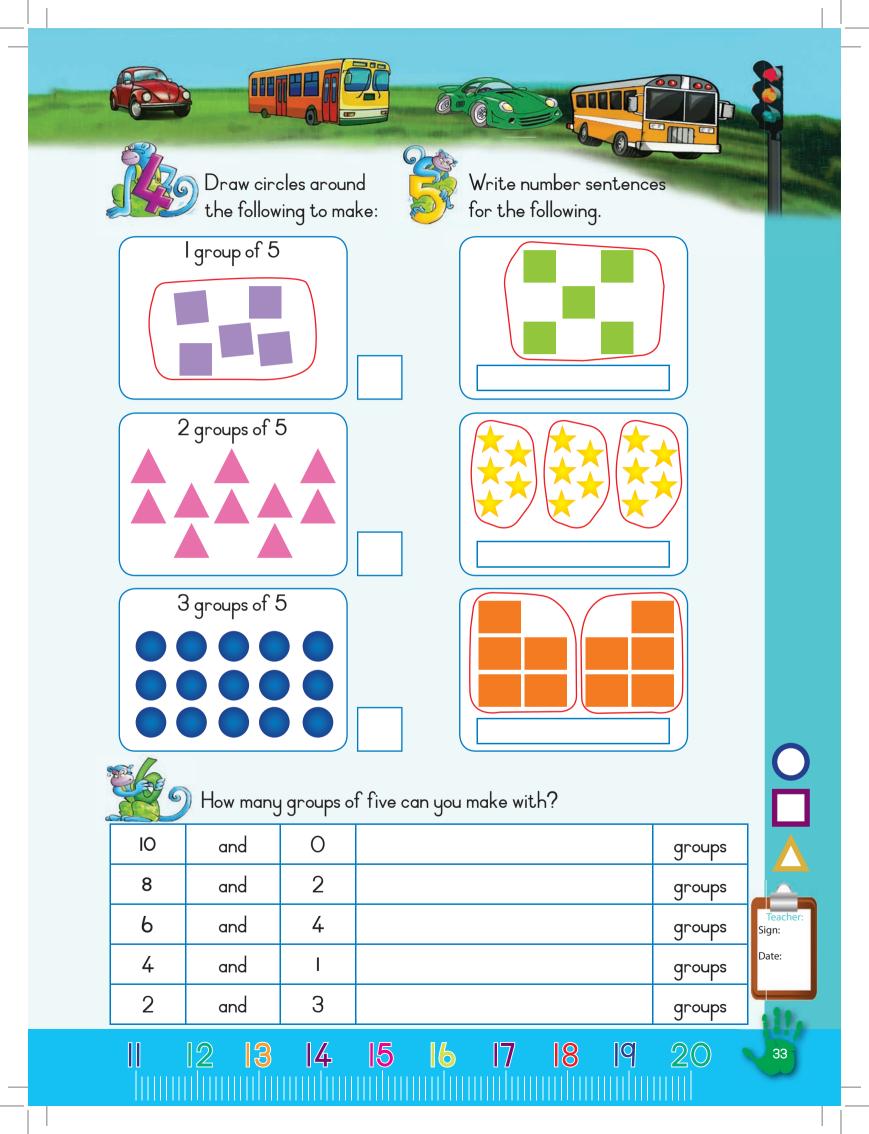






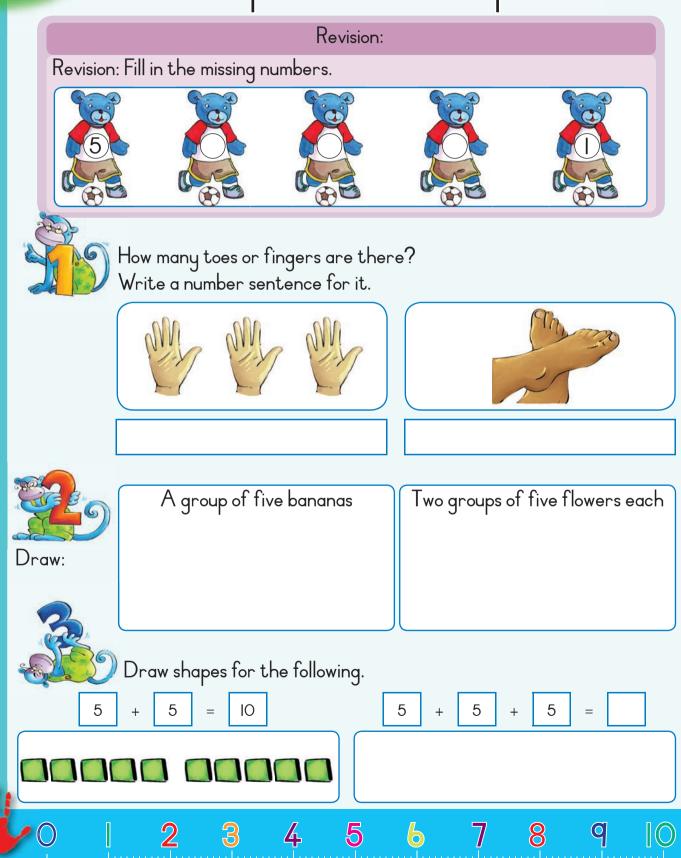
### Groups of fives up to 15

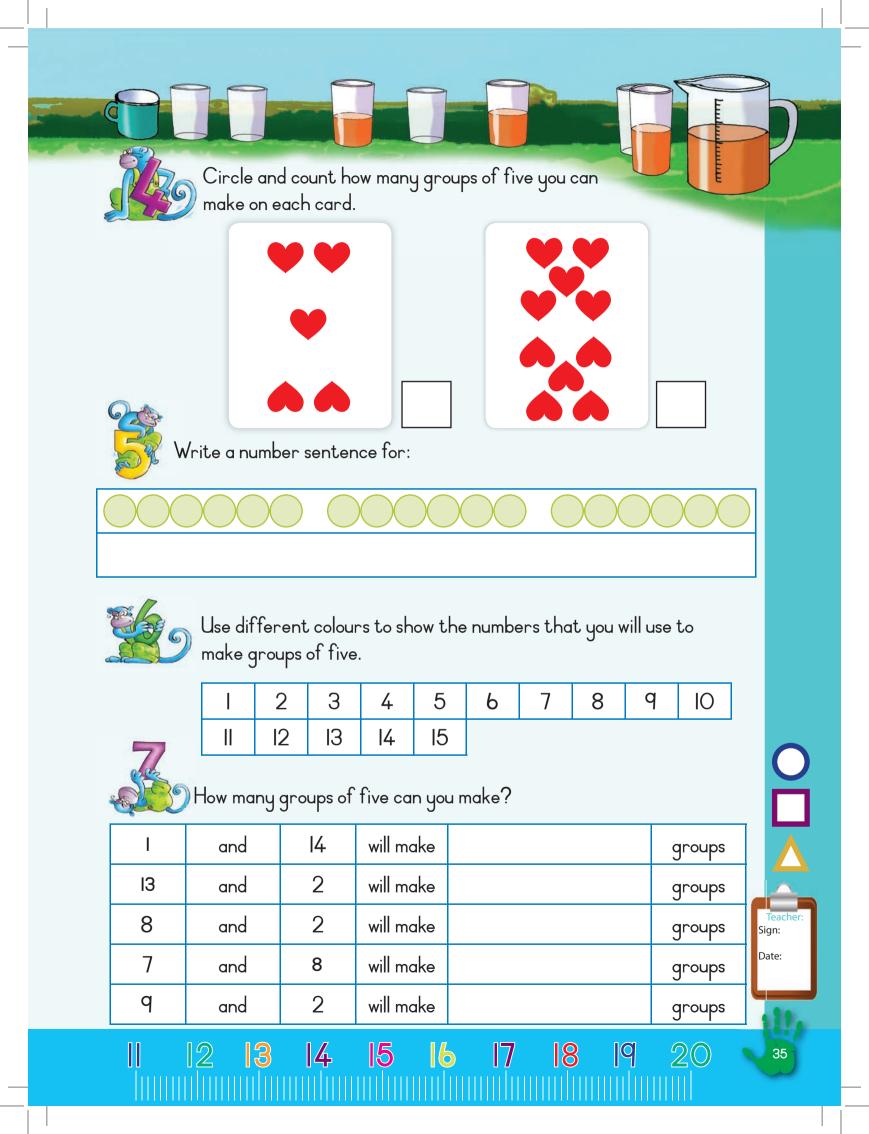




### Fives: repeated addition up to 15

Date





# Fives up to 15

Date



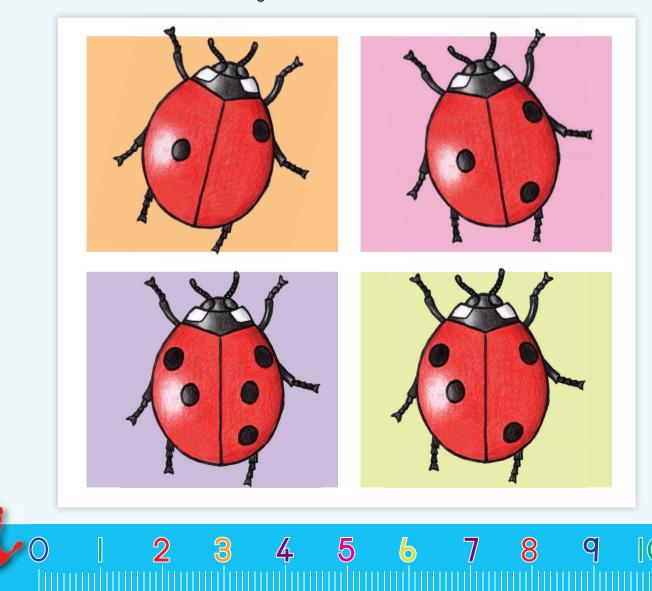
Term 3

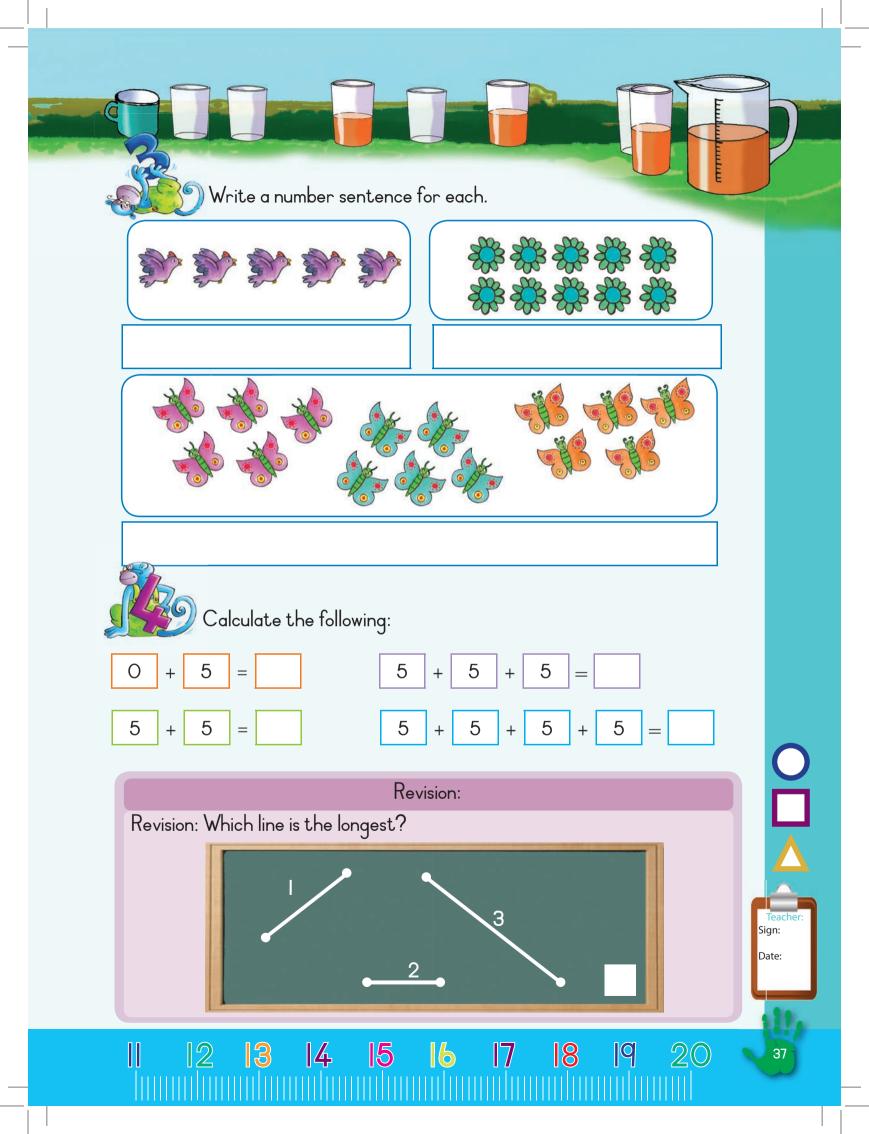
Fill in the missing numbers.

Ι		3	5	7	8	q	
II	12						



Make groups of five. Each ladybird has to have a group of five black dots on each wing. Draw the missing dots.





# Date:

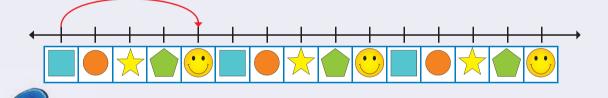
### Number patterns of fives up to 50

Term 3

Complete the fives pattern by colouring in the numbers.

Ι	2	3	4	5	6	7	8	q	10
II	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Draw hoops to show the groups of five.



Fill in the missing numbers and draw hoops to show groups of five.

15 0

Complete the number line. Draw hoops to show groups of five.

5

There are

4

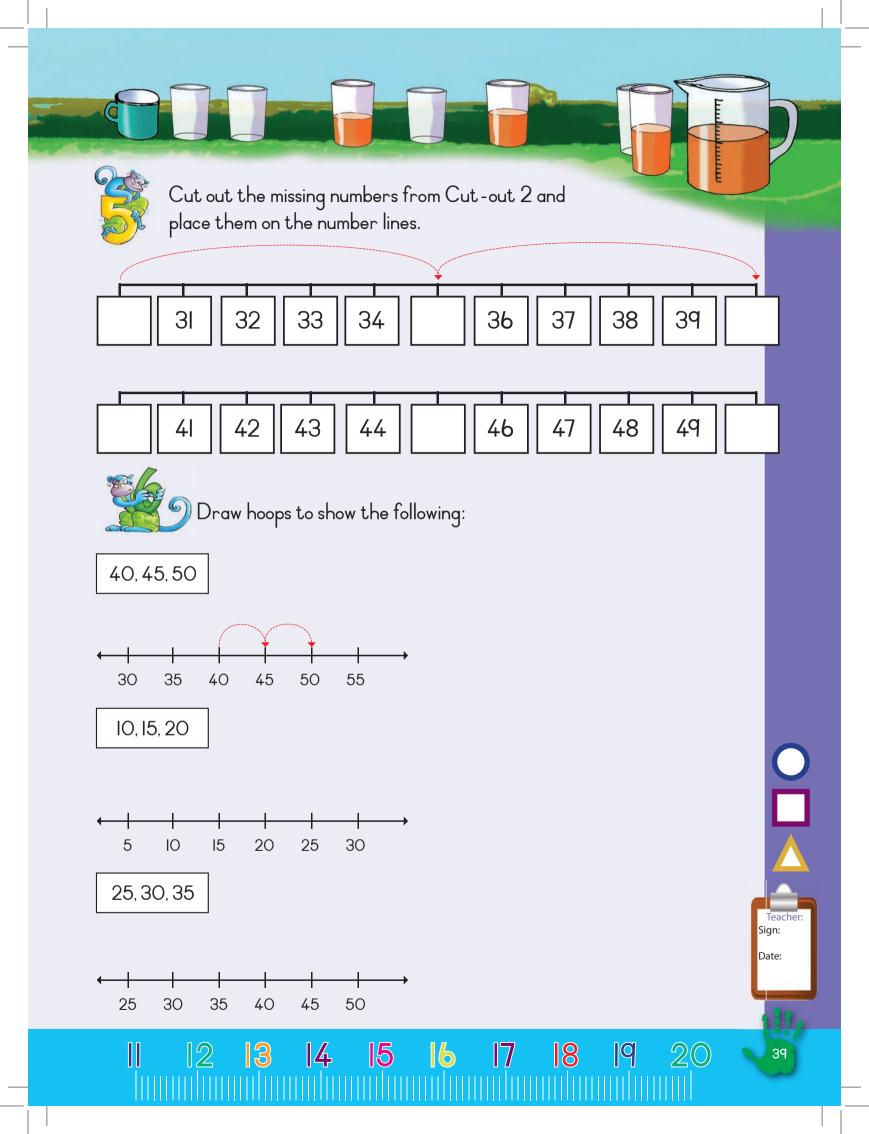
2

groups of five.

15

q

8



## Number patterns of fives up to 80

Date:

T<sub>erm</sub> 3



Complete these pictures to show two groups of five in each block.

5

4

3

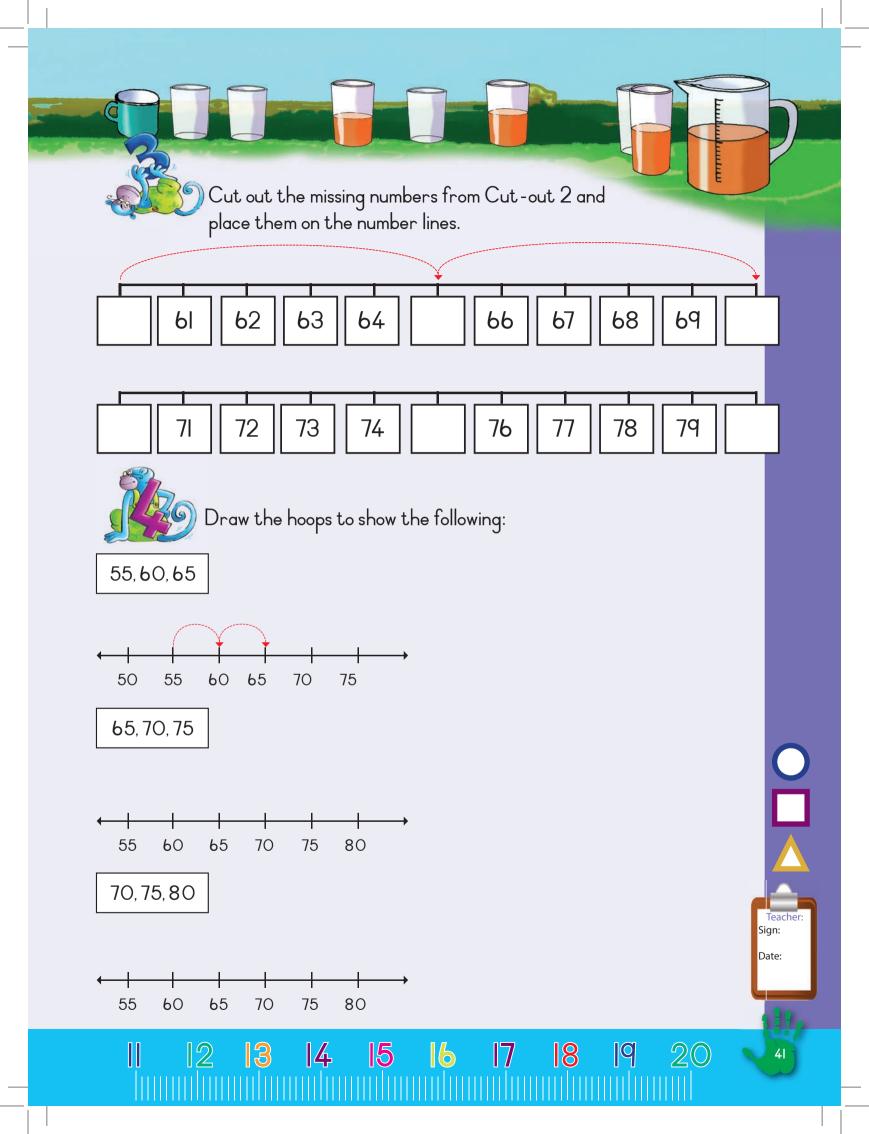
2





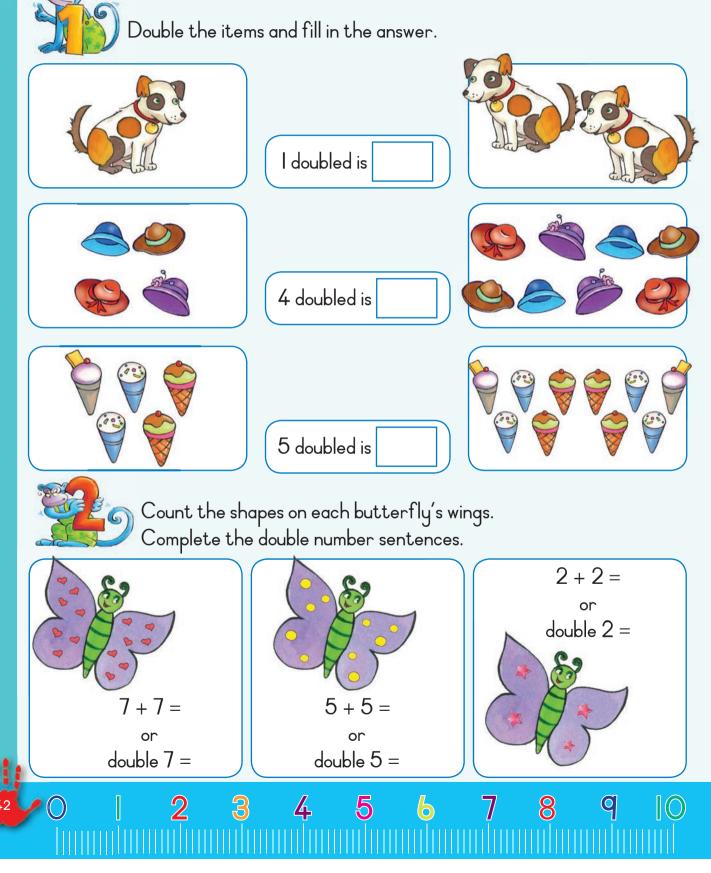
8

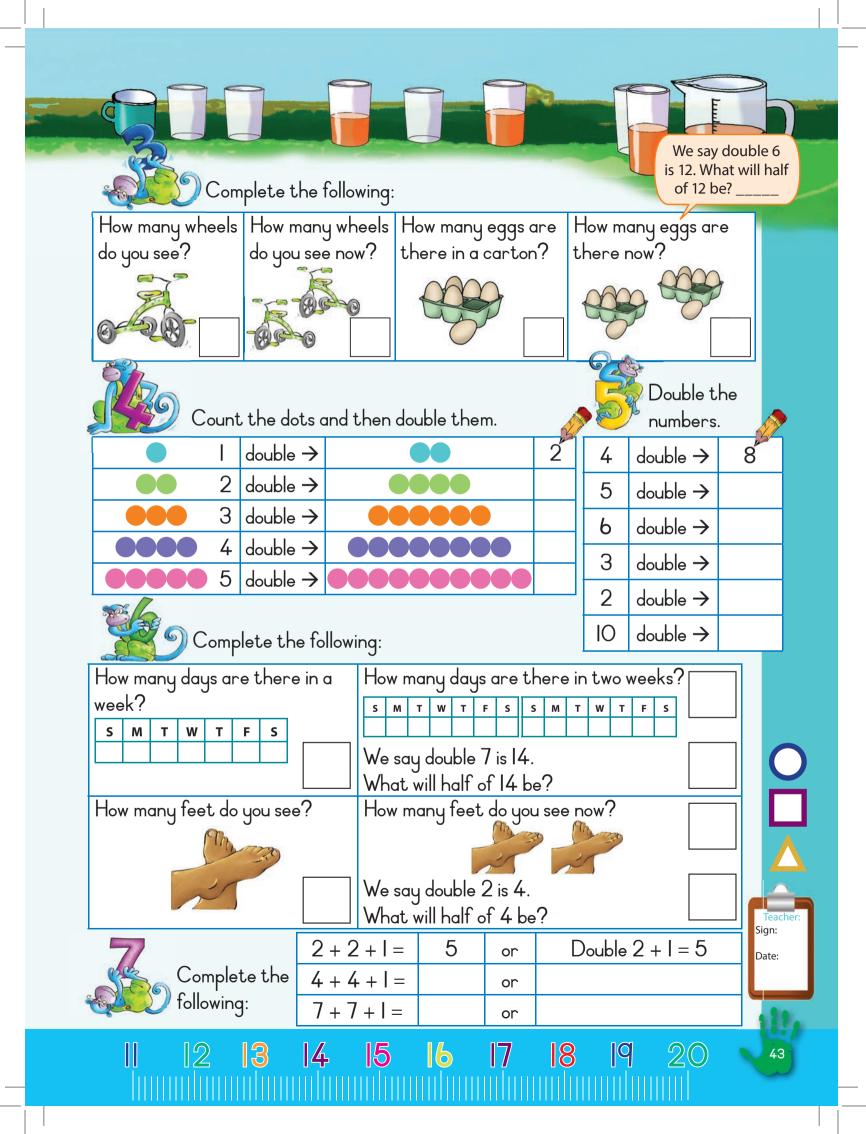
9

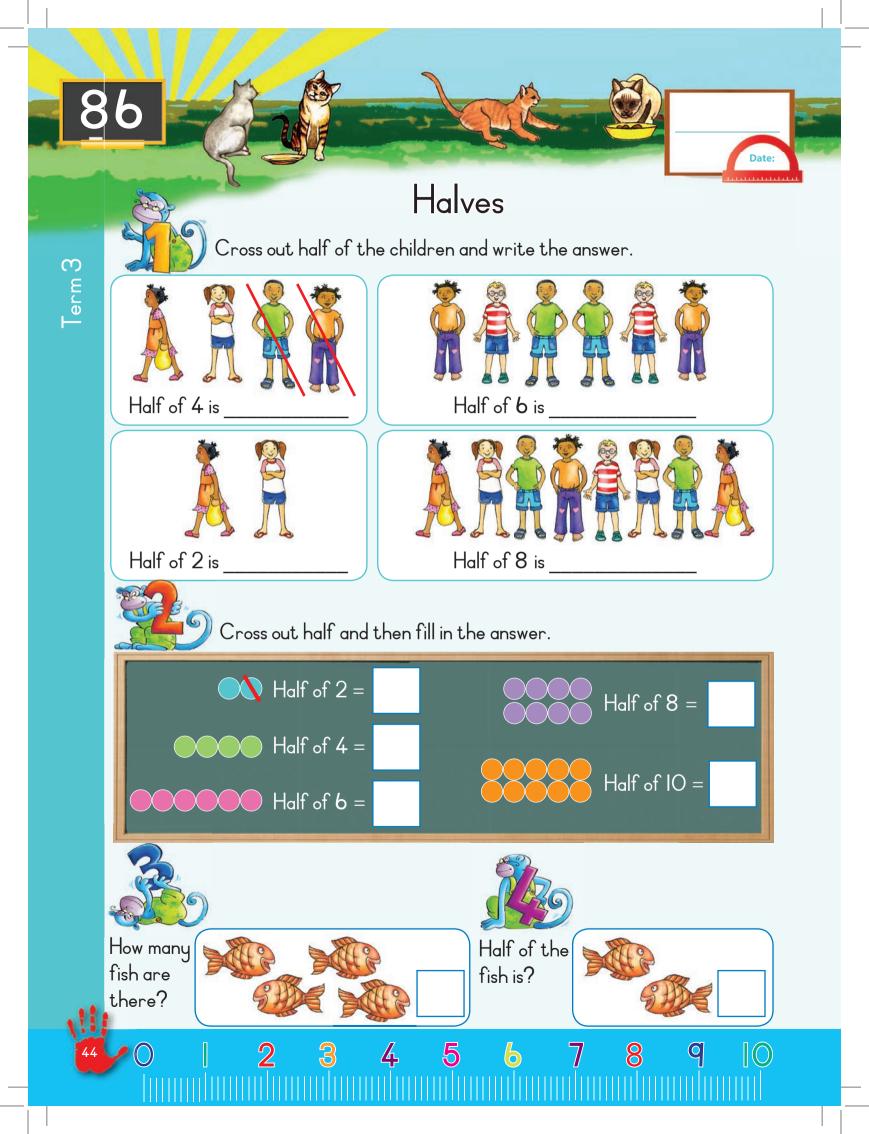


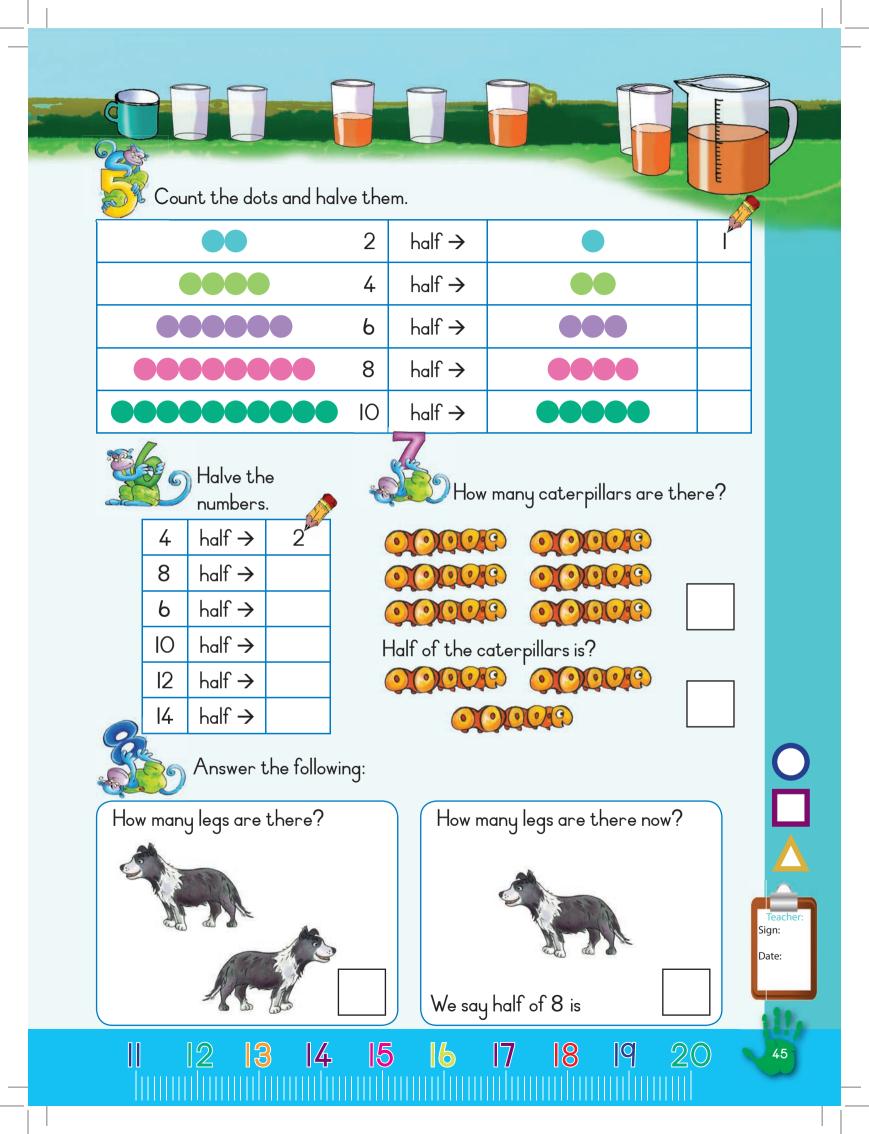
#### Doubles

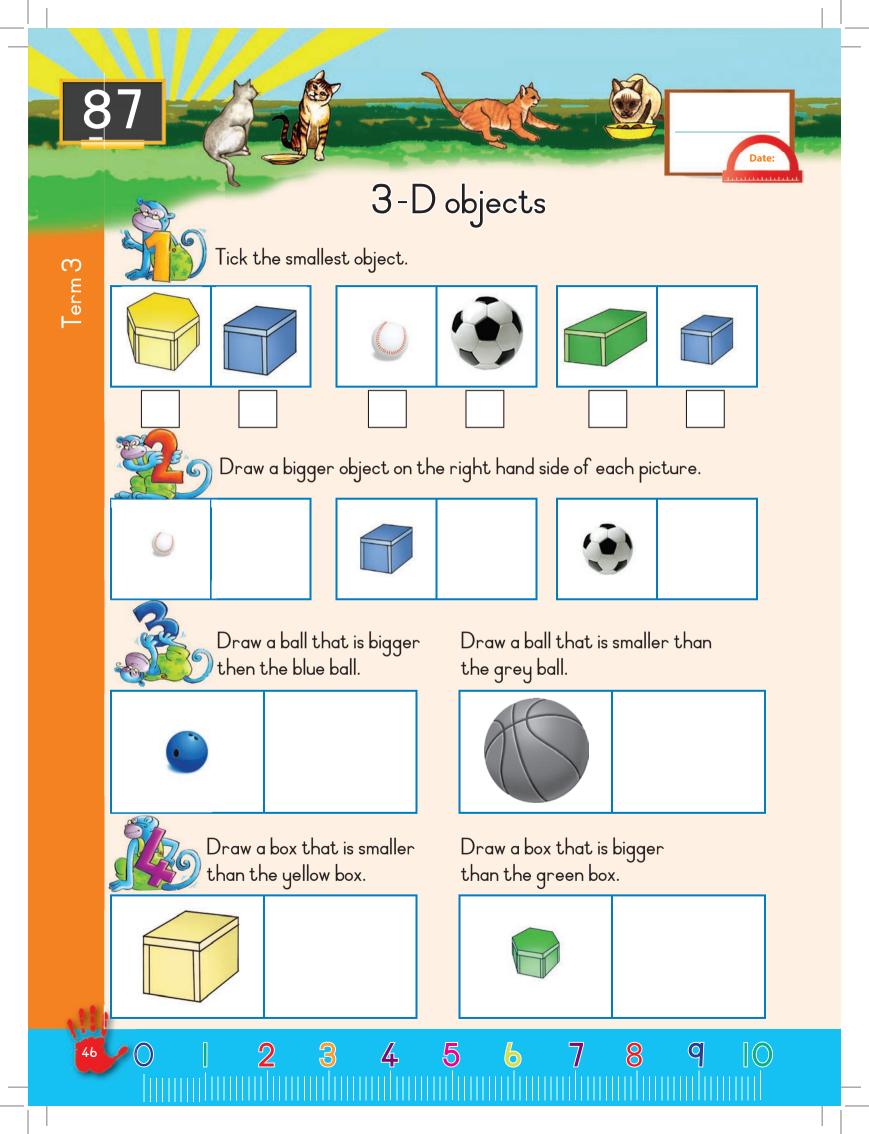
Date

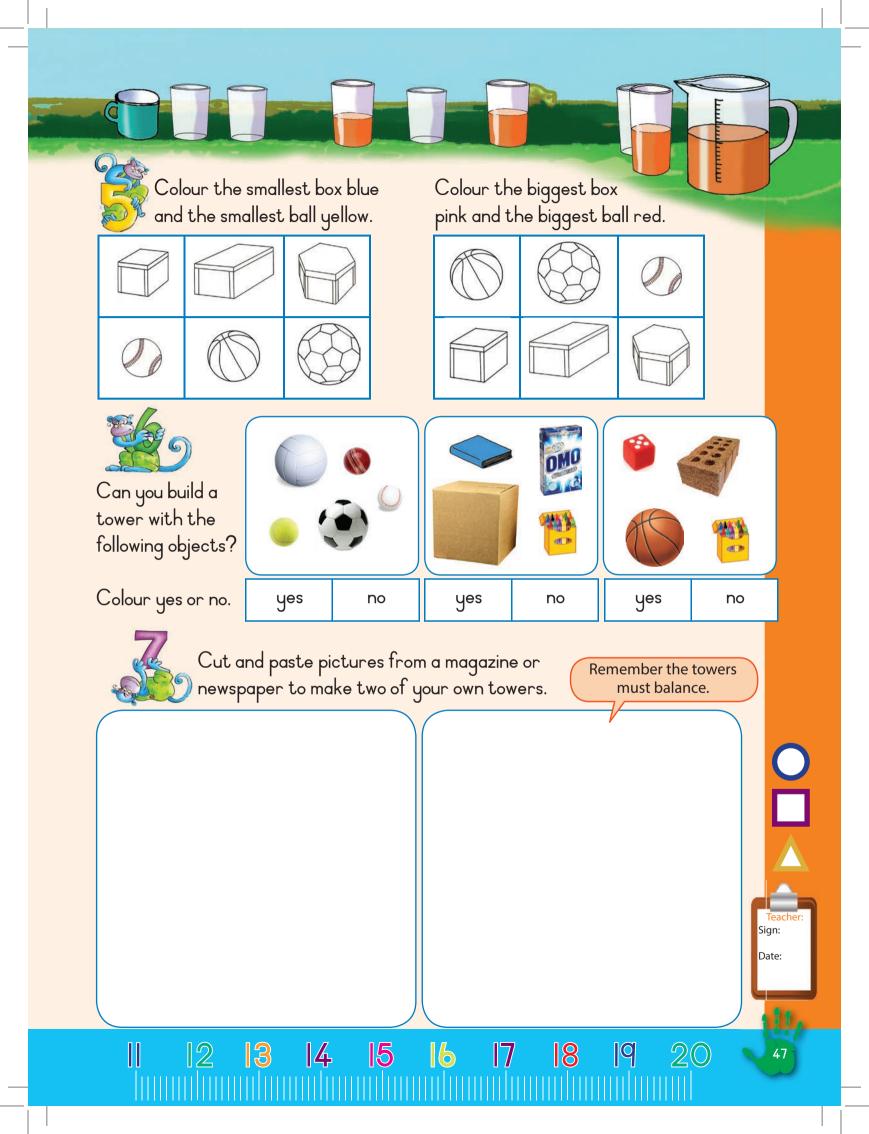










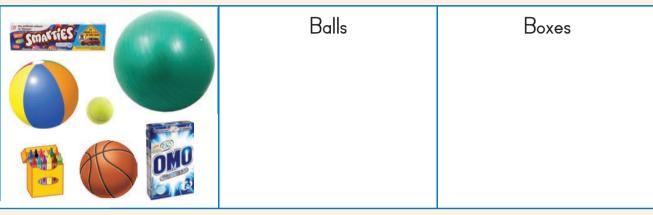








Sort the following objects by drawing them in the correct block.

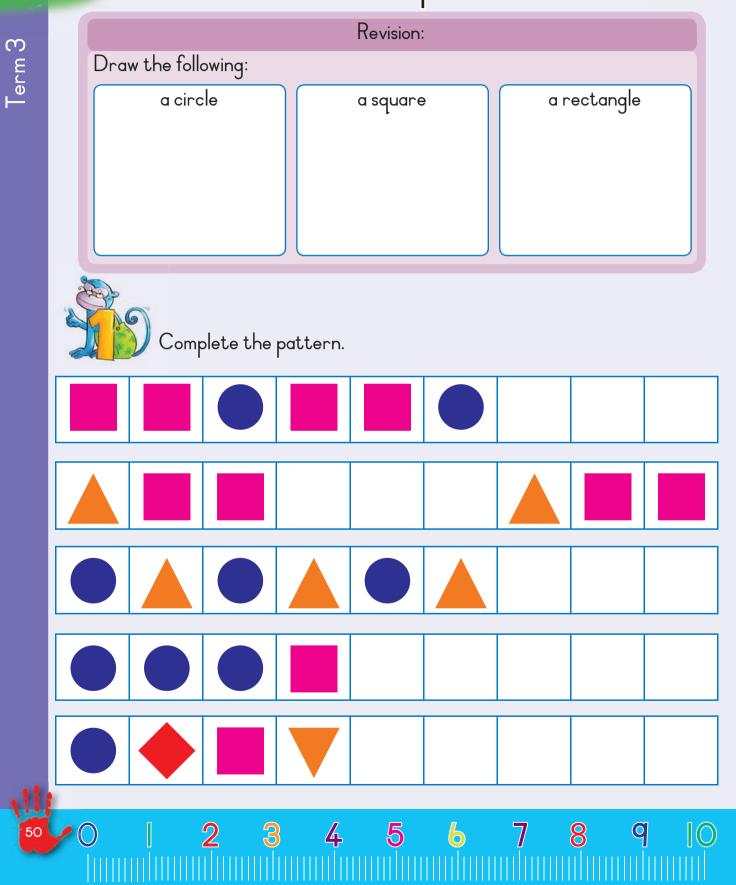


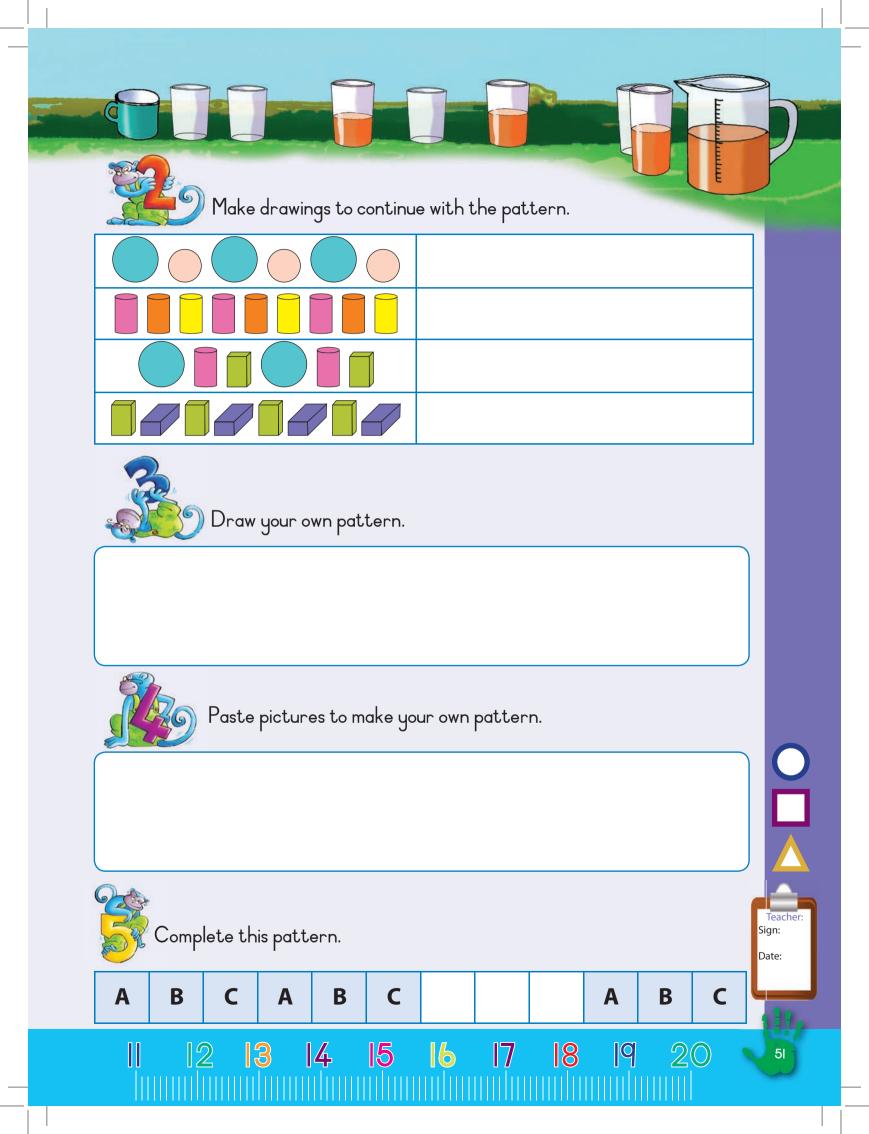
Sort the objects according to size by drawing them.

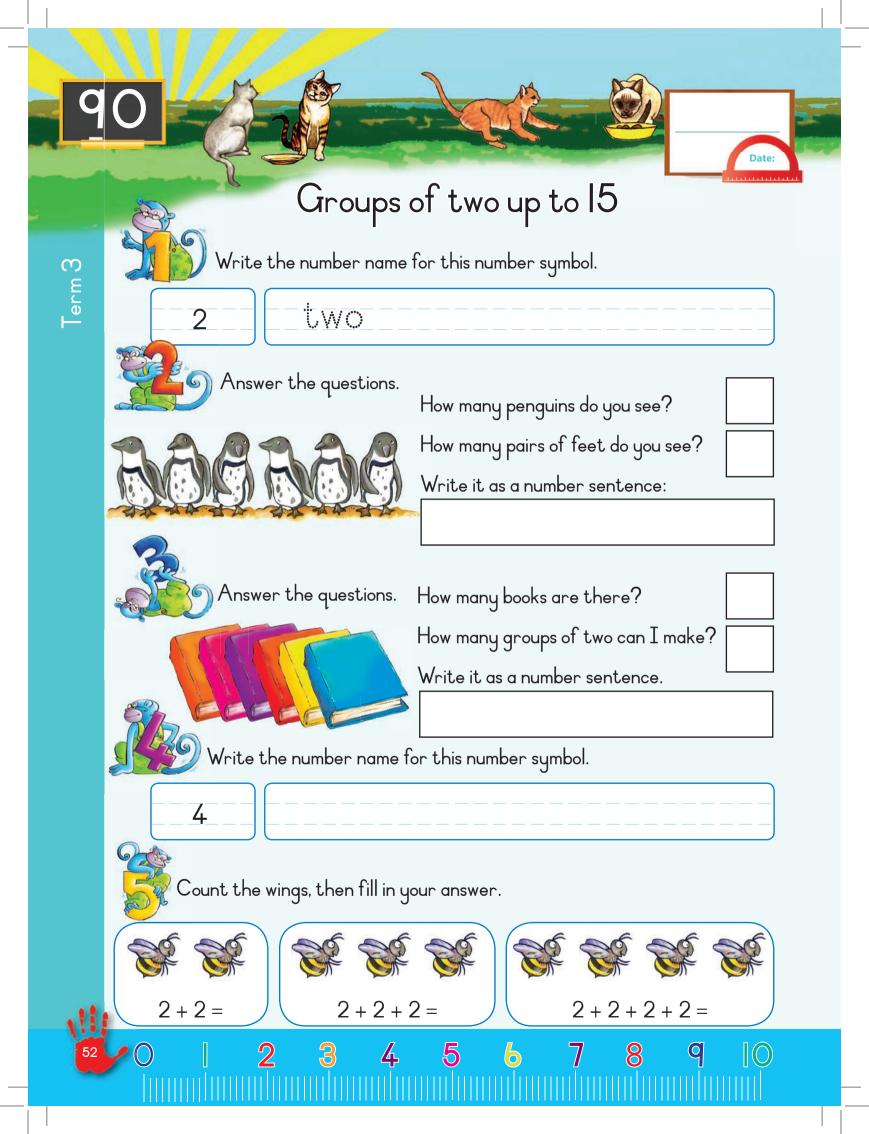
	Small balls	Small boxes	0
	Big balls	Big boxes	C Teacher: Sign: Date:
2  3	4 15 16 17	18 19 20	49

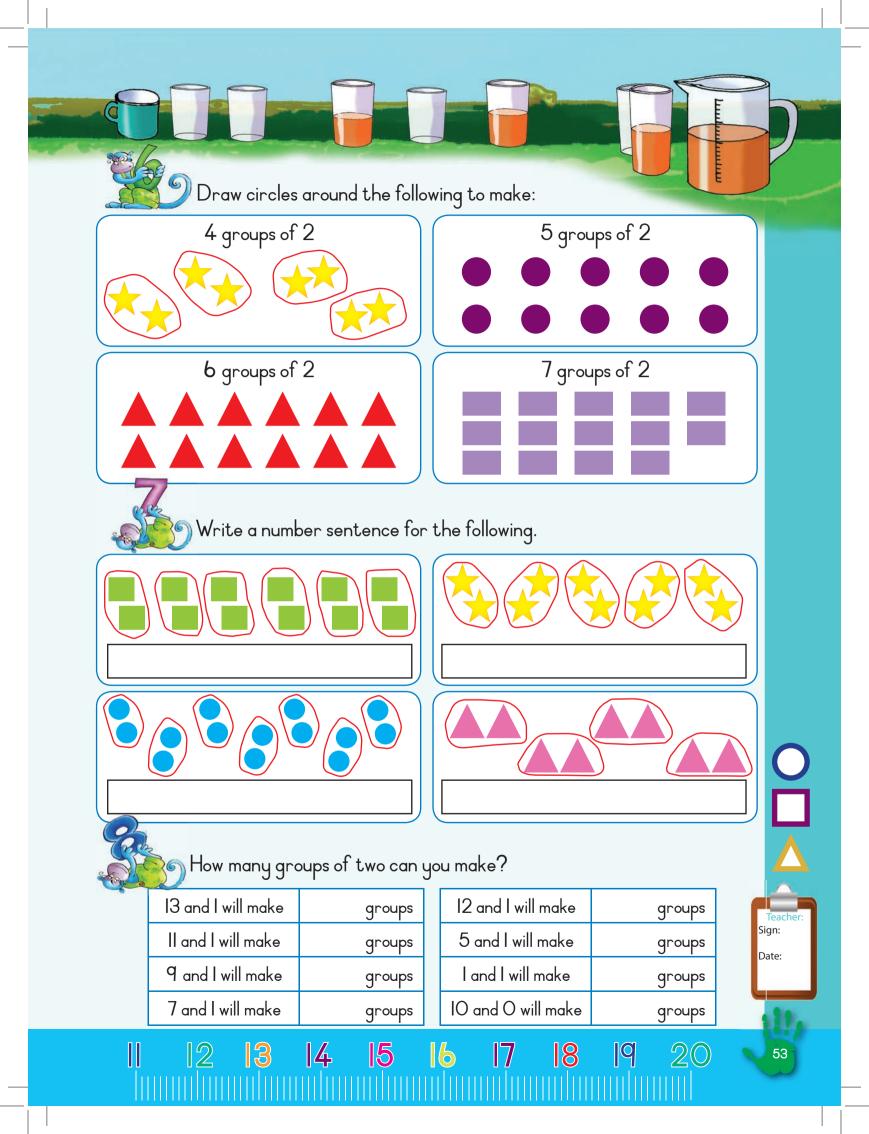
# Geometric patterns

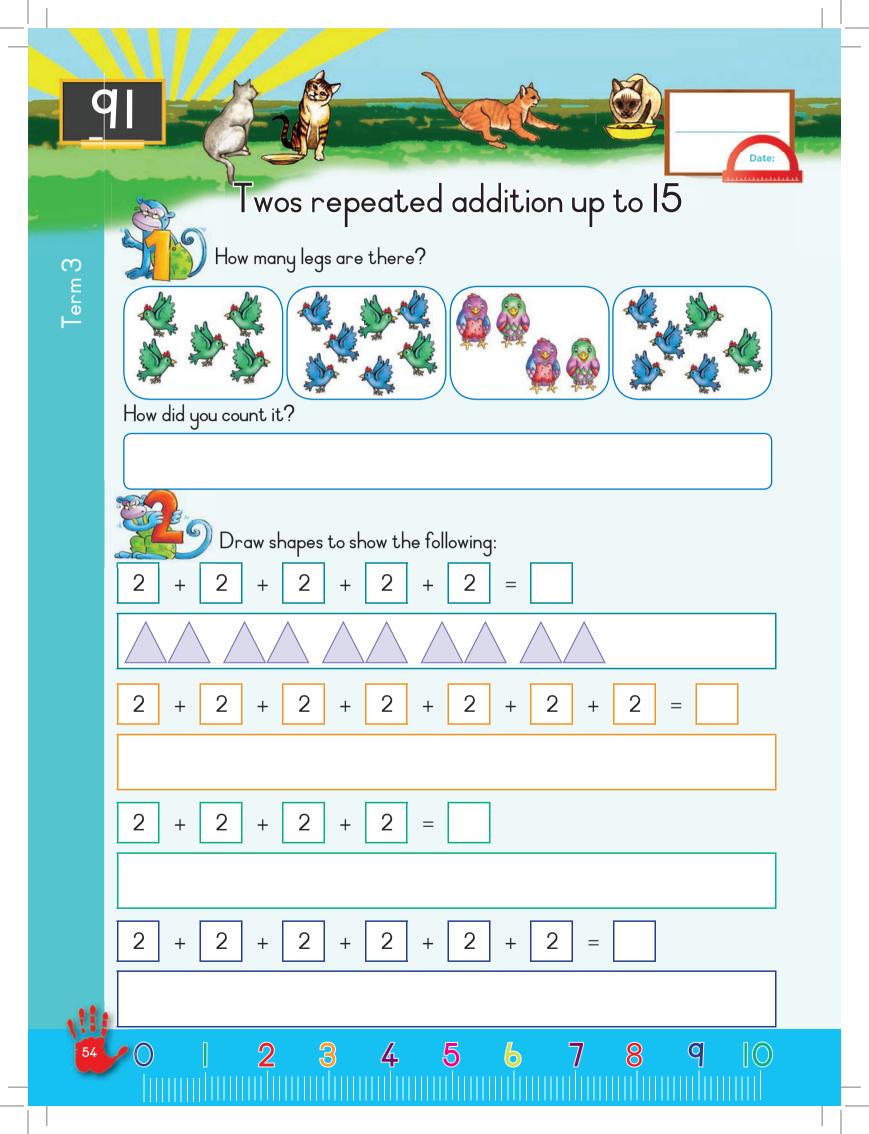
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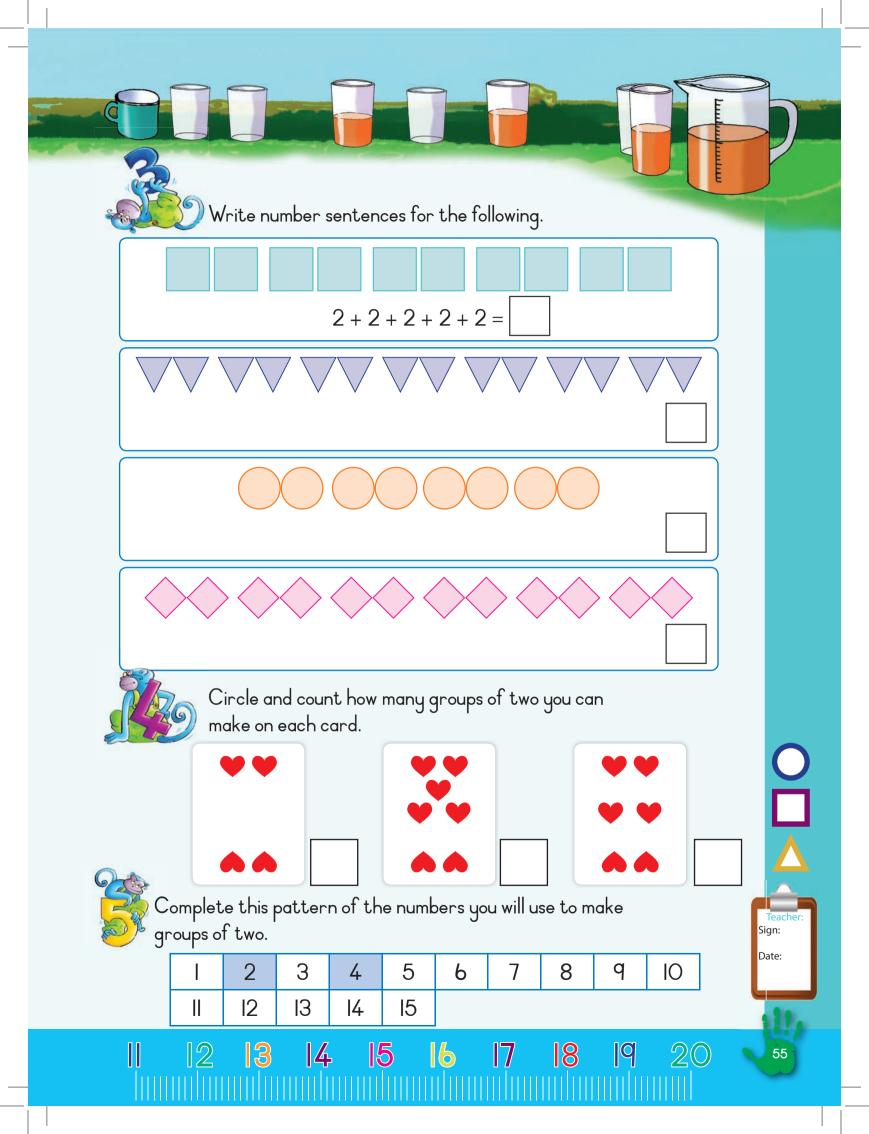


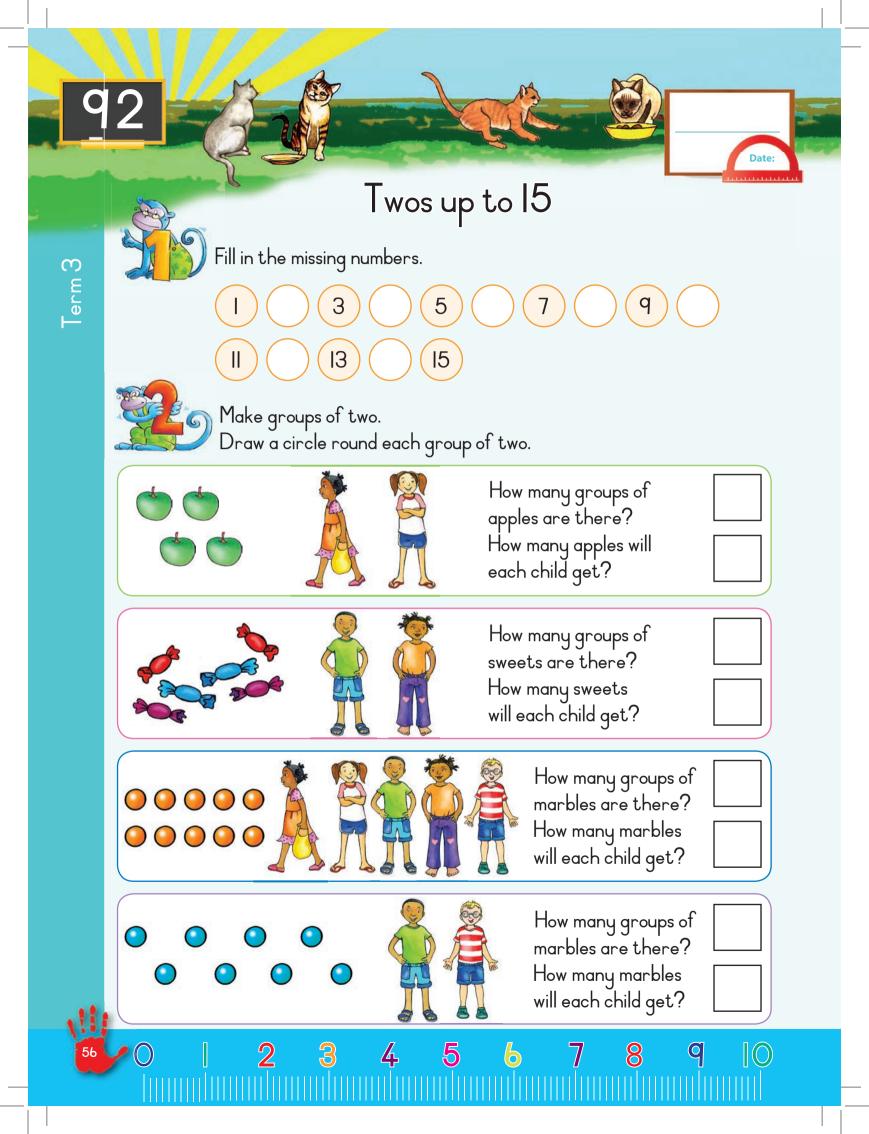


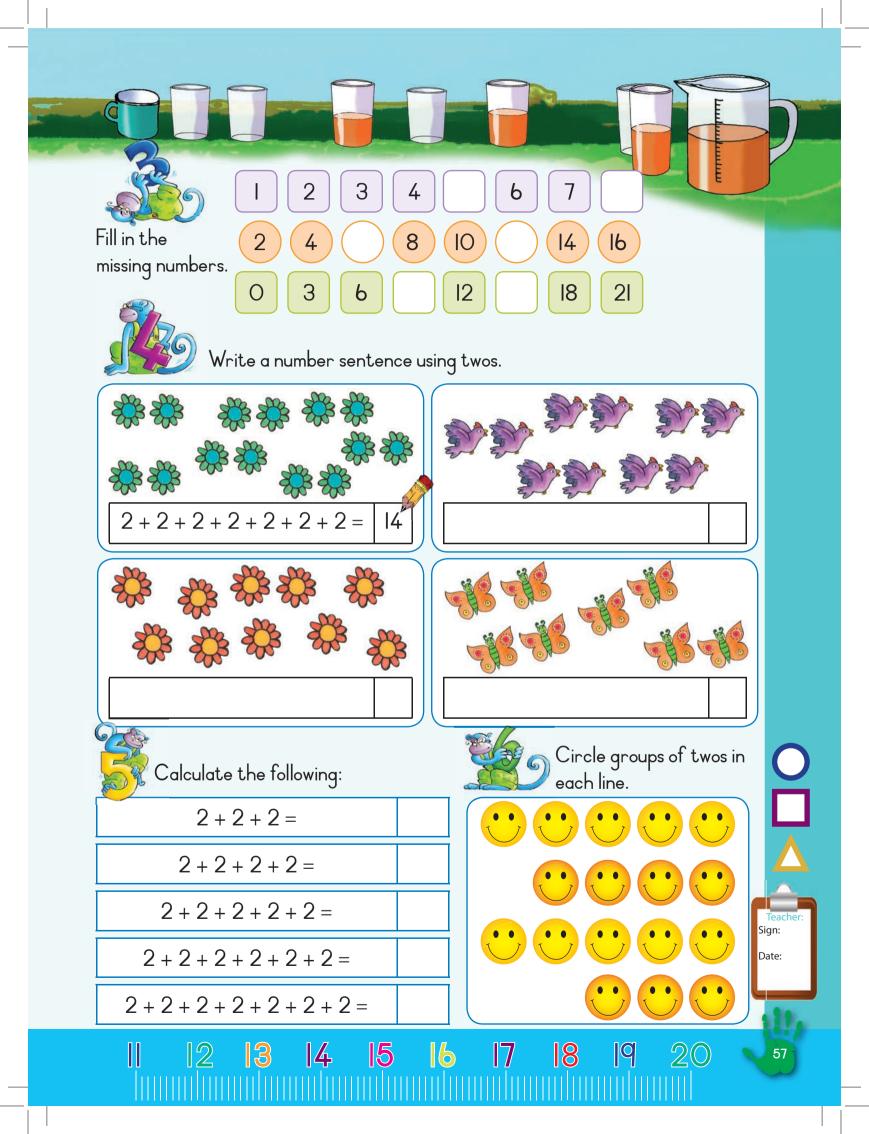












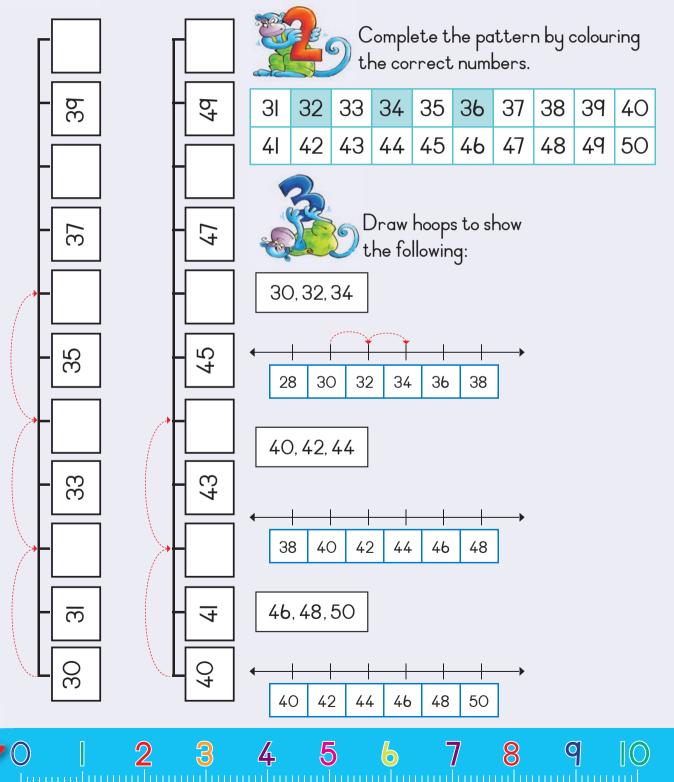
# 

## Number patterns 2 to 50

Term 3

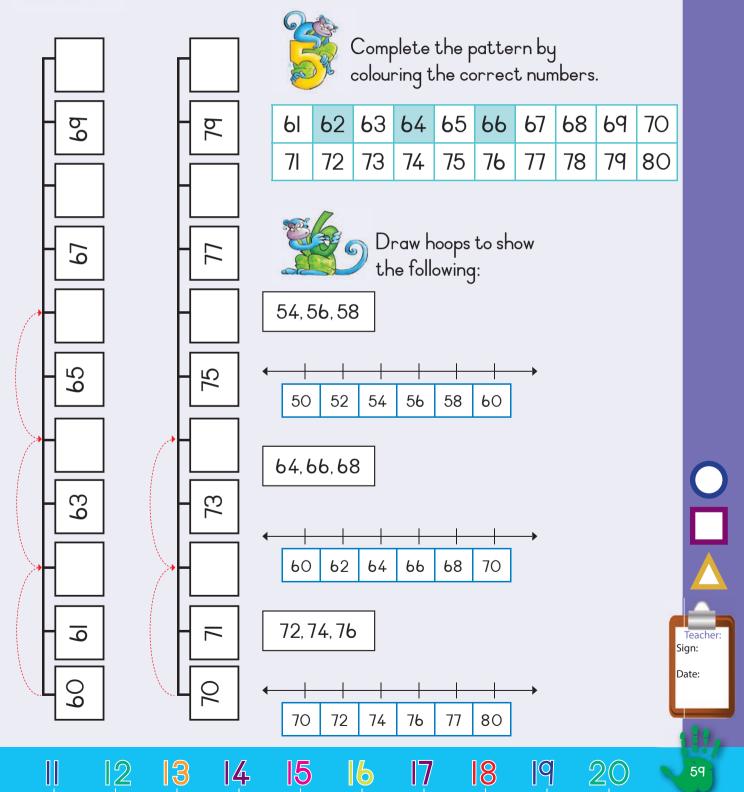
58

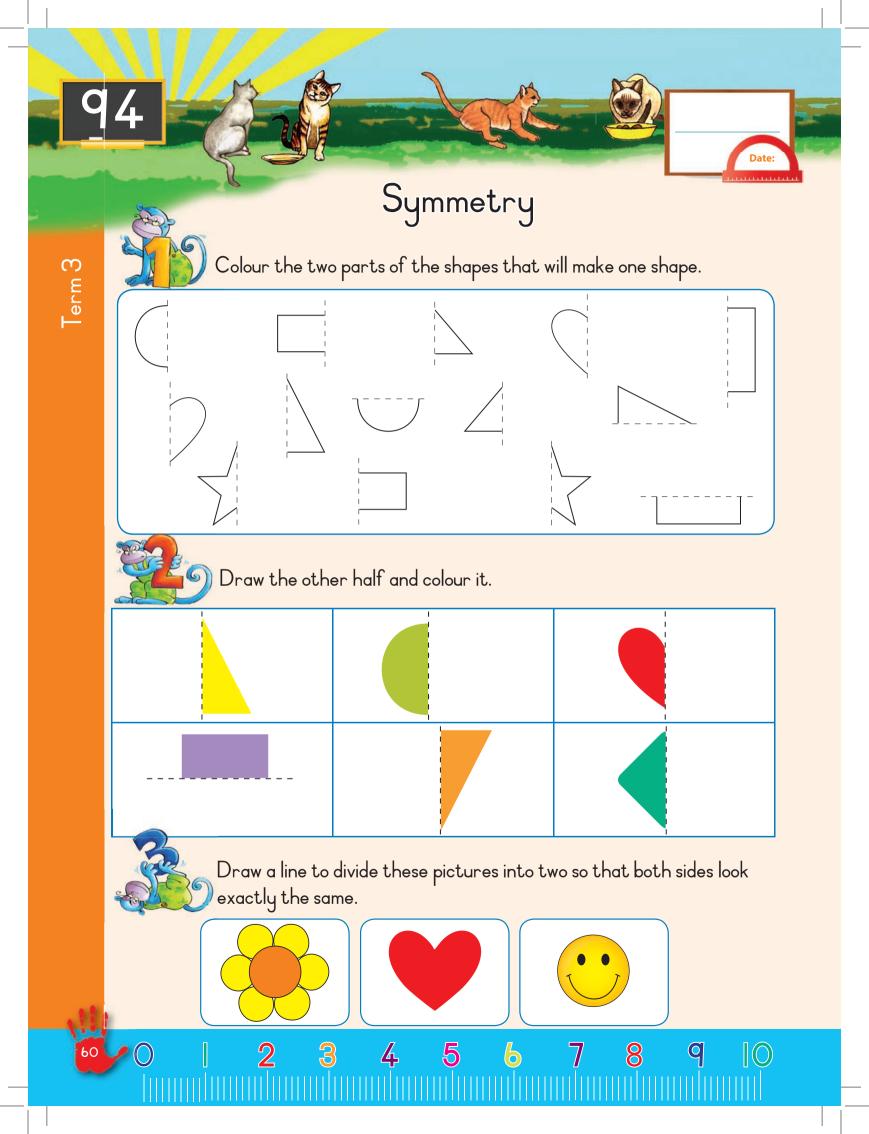
Cut out the missing numbers from Cut-out 2 and paste them on the number line. Also complete the hoops.

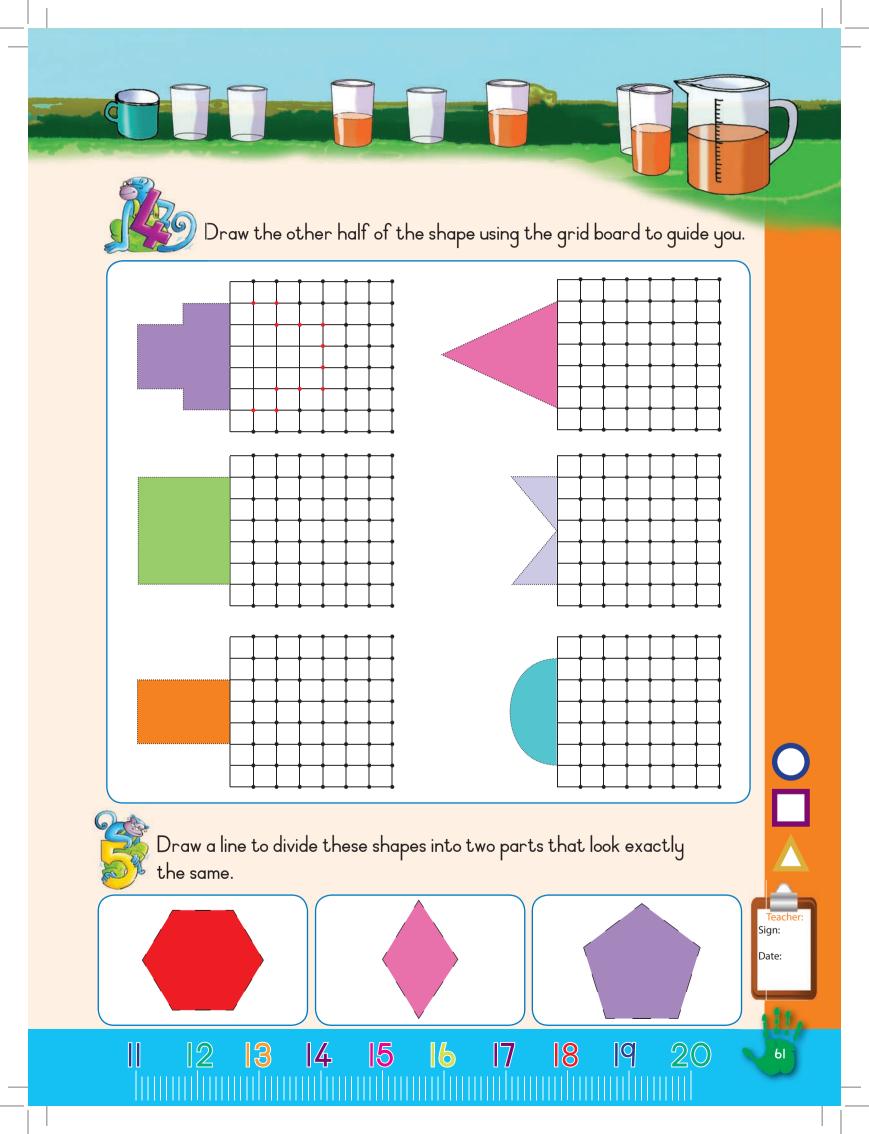


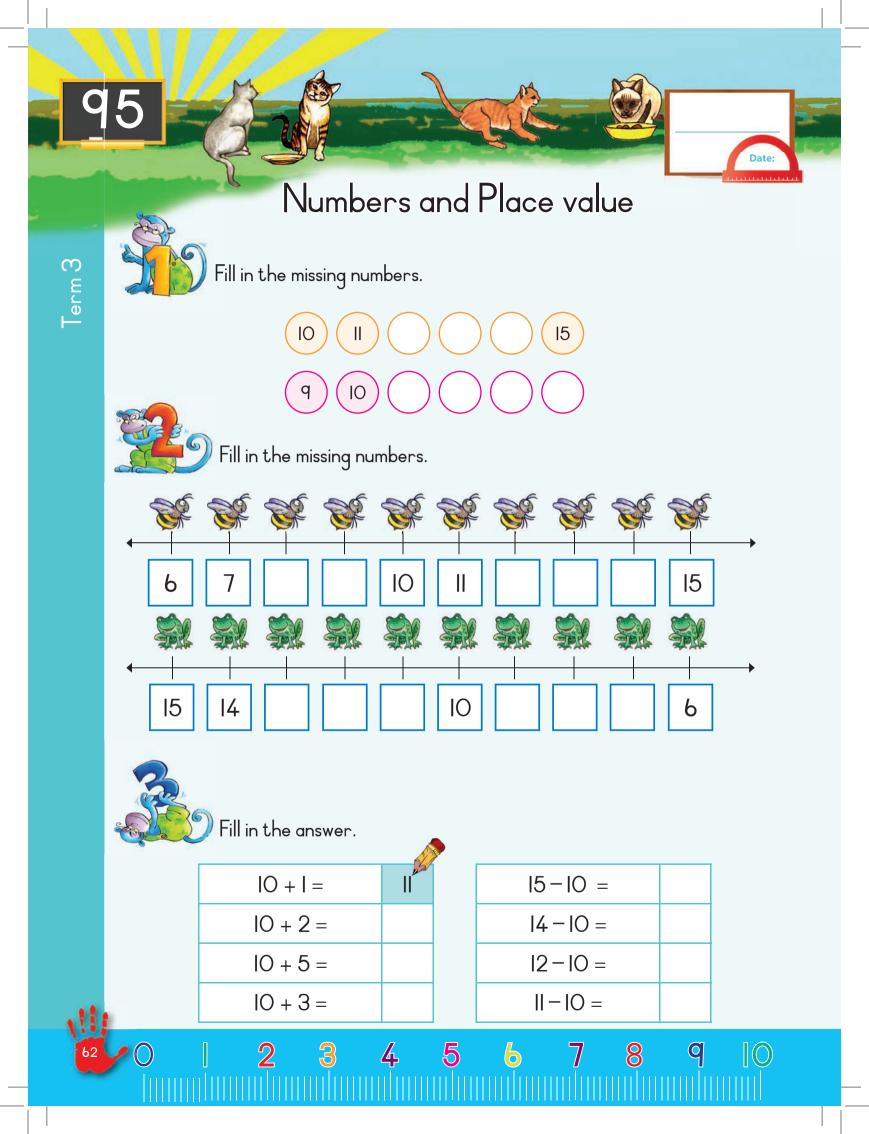


Cut the numbers from Cut-out 2 and place them on the number line. Complete the hoops.



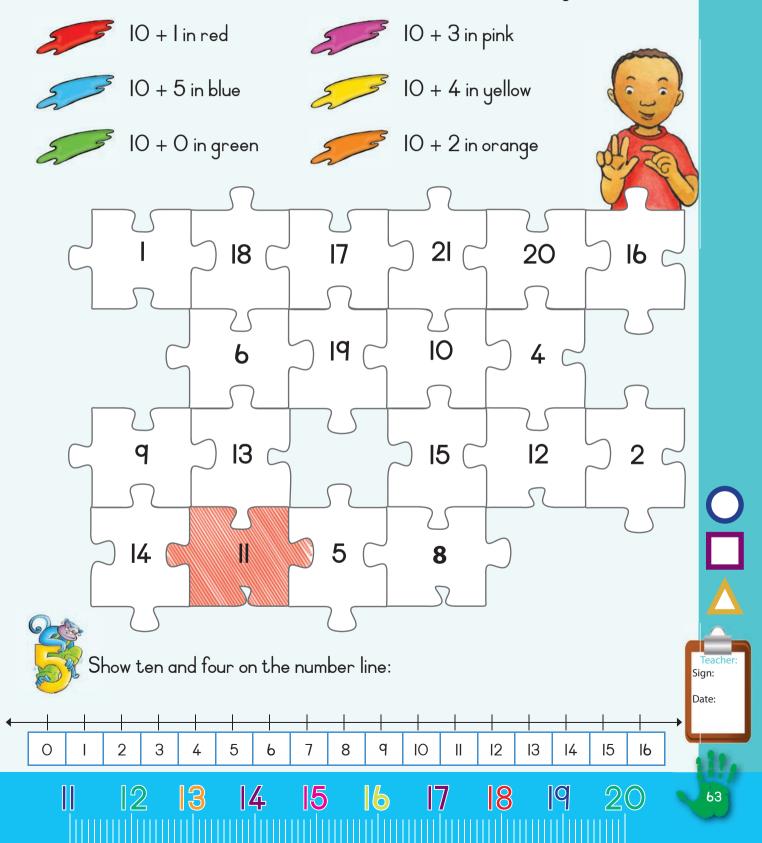






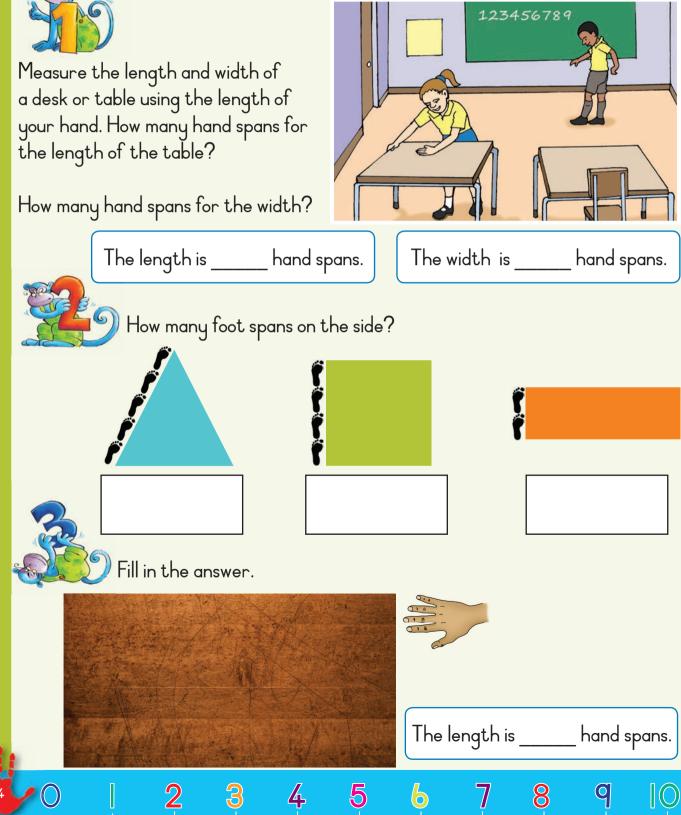


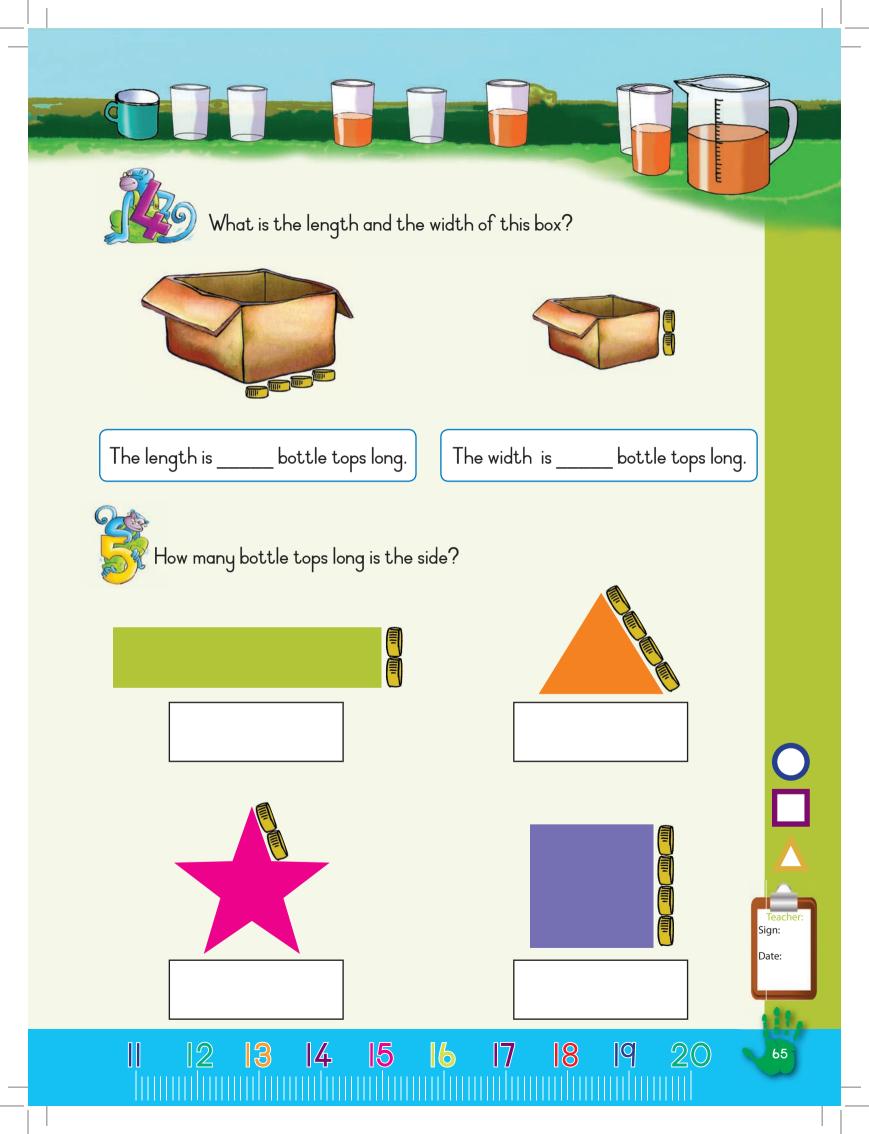
Calculate each colour sum and then colour in the correct puzzle piece that has the right number. Use the same colour. We have done the first one for you.





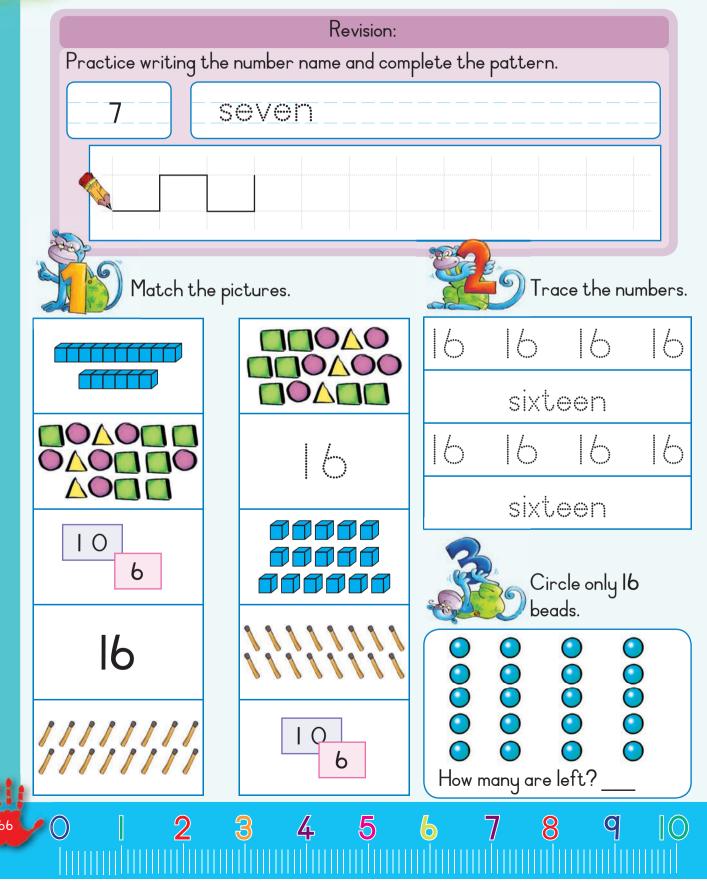


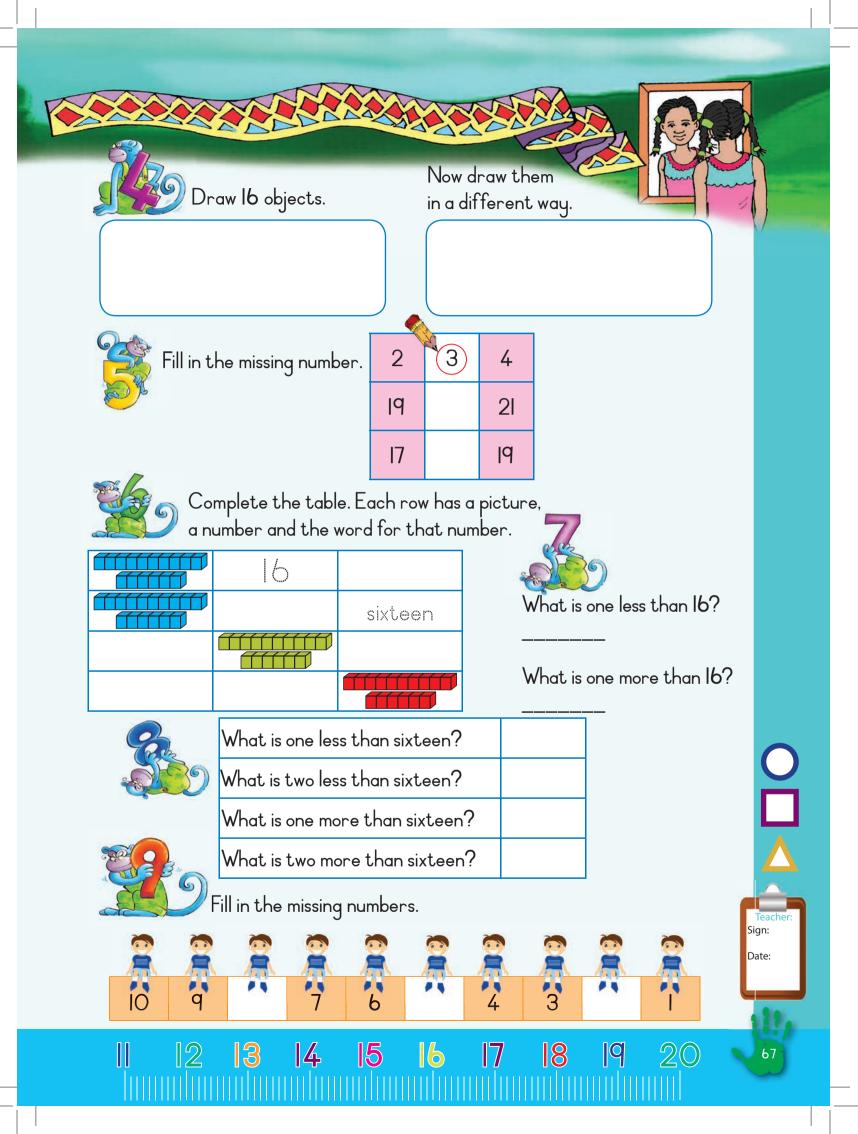




#### Number 16

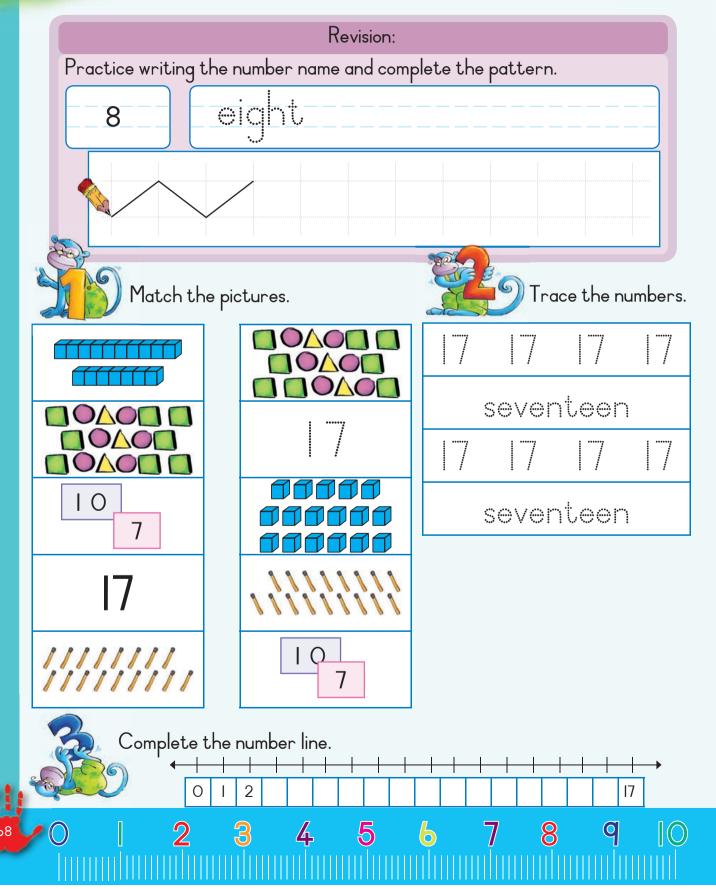
Date





#### Number 17

Date



Draw 17 objects.

Now draw them in a different way.

17

25

18

16

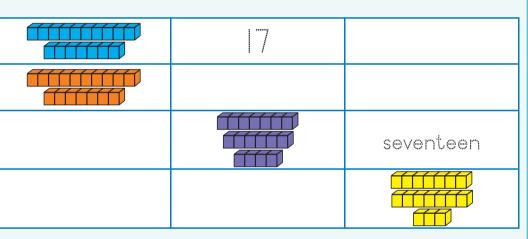
24

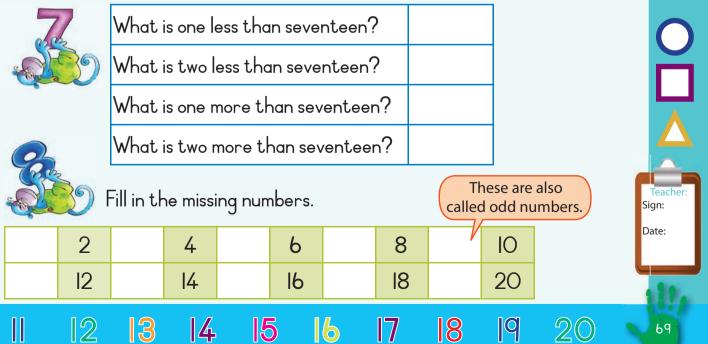
17

Which number comes after?



Complete the table. Each row has a picture, a number and the word for that number.

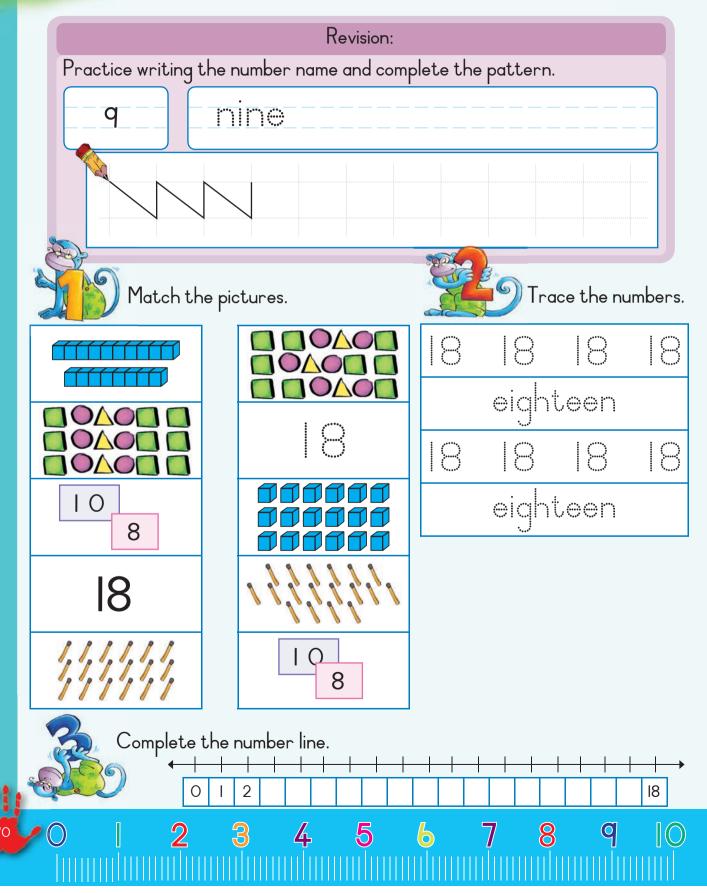




#### Number 18

Term 4

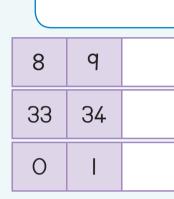
Date



Draw 18 objects.

Now draw them in a different way.

Which number comes after?



Complete the table. Each row

table. Each row has a picture, a number and the word for that number.

18	
	eighteen



I

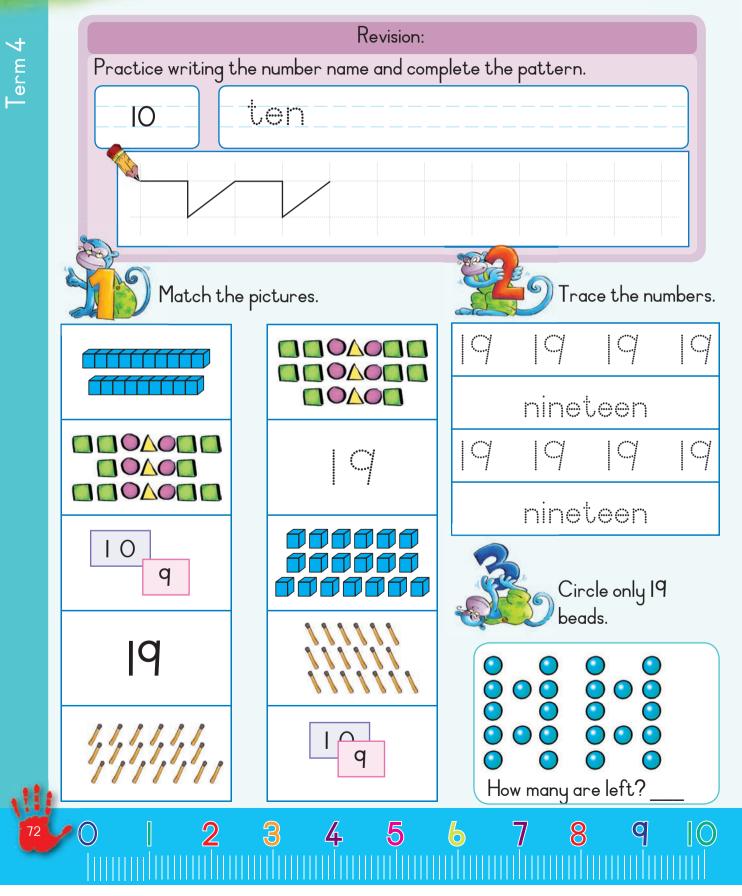
II

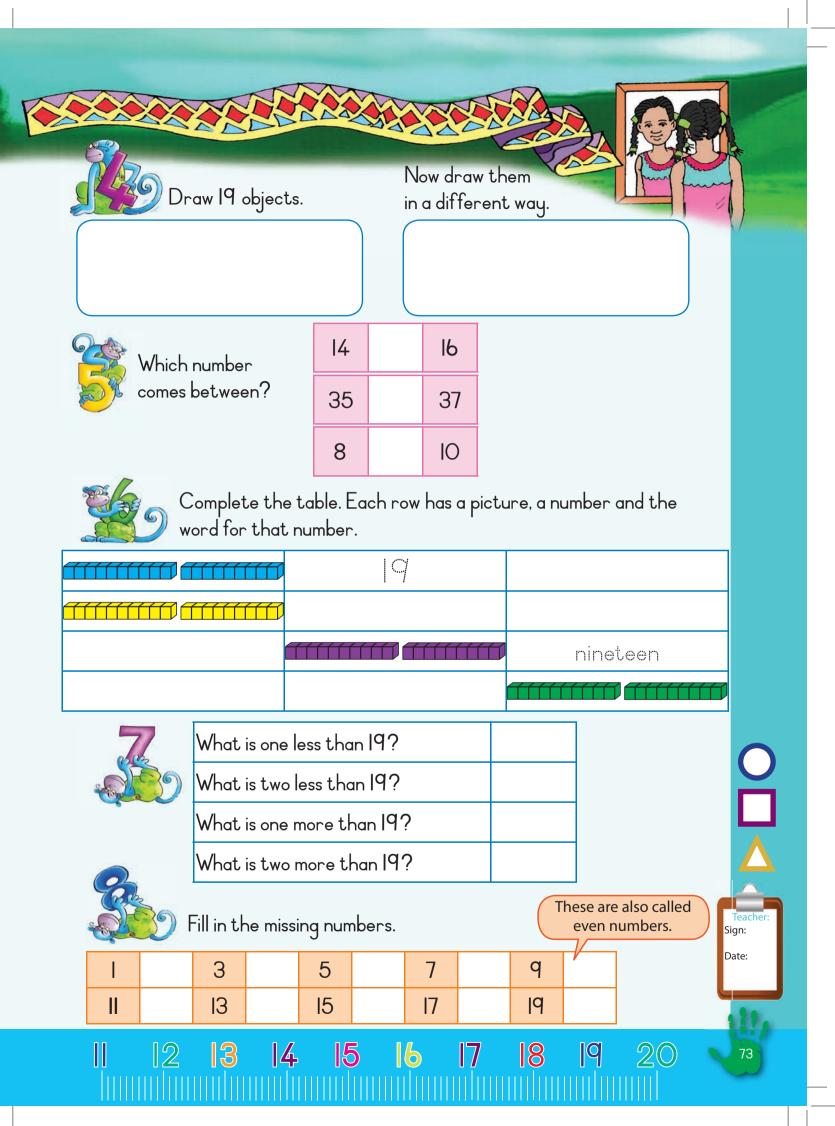
	What is	s one le	ess tha	n 18?						(		
39	Mhat is two less than 18?											
	What is one more than 18?											
	What is two more than 18?											
39	Fill in th	ne missi	ng nun	nbers.		·		_		Teach Sign:		
2		4	5	6	7		q	IO		Date:		
	I3	4	15		17	18		20		. 21		
12	13	4	15	5	6	17	8	<b> </b> 9	20	71		

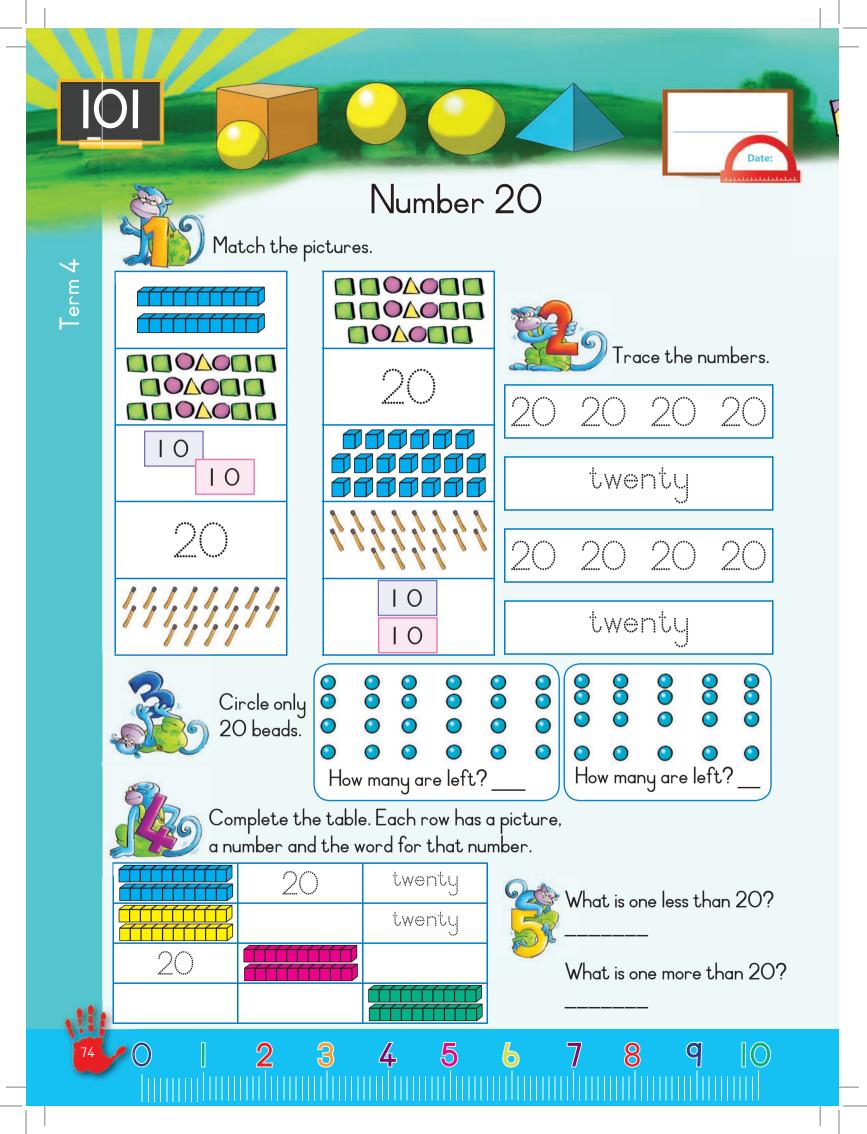
C

### Number 19

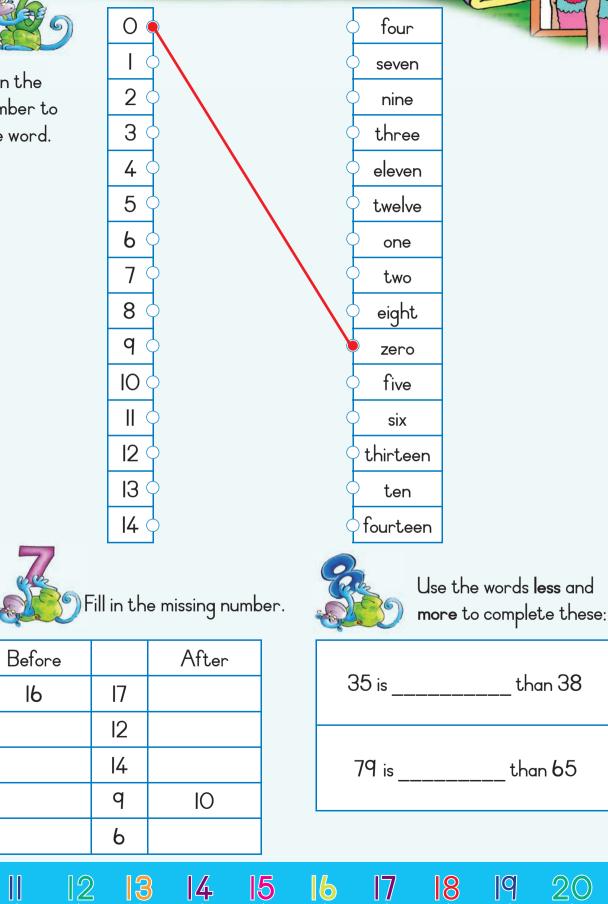
Date







Join the number to the word.



Sign: Date:

### Addition



Circle the bigger number in each block.

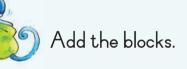
3	5	15	II	20	8
8	7	12	6	17	18



Add the following. Start by putting the biggest number first.

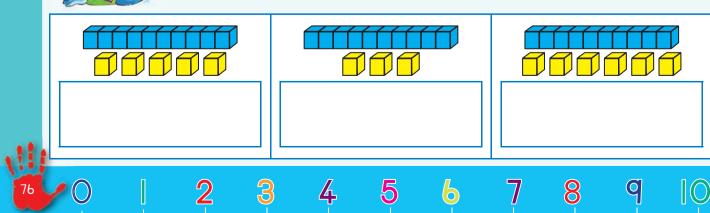
5 +   +   =

Date

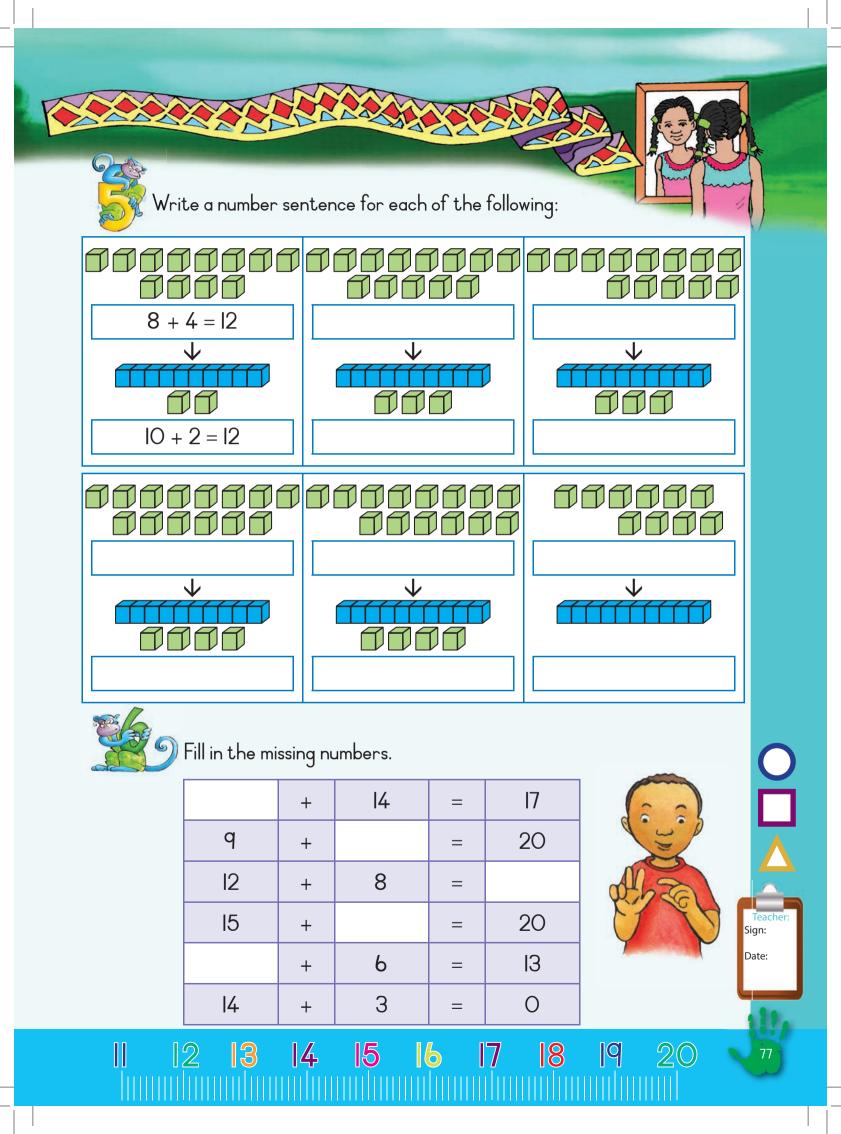


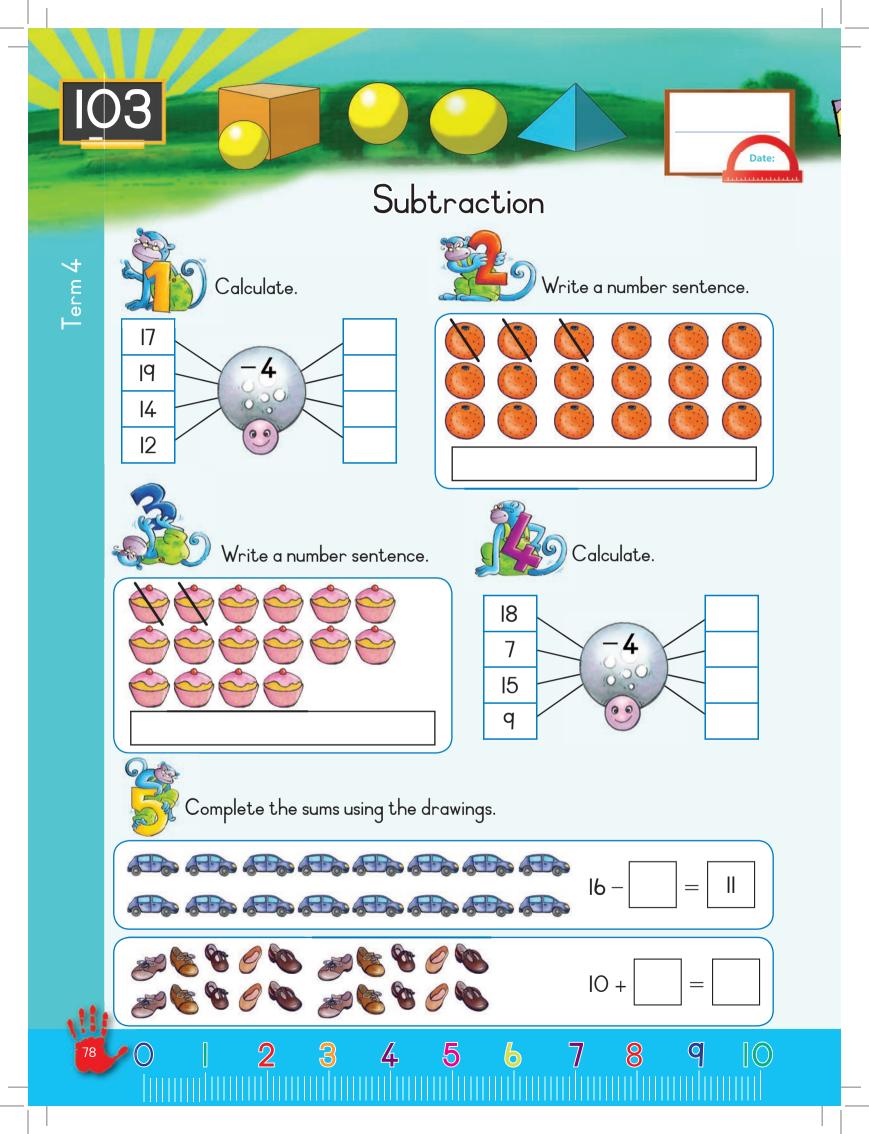
IO + 2 + 3 = I5	
IO + 5 = I5	

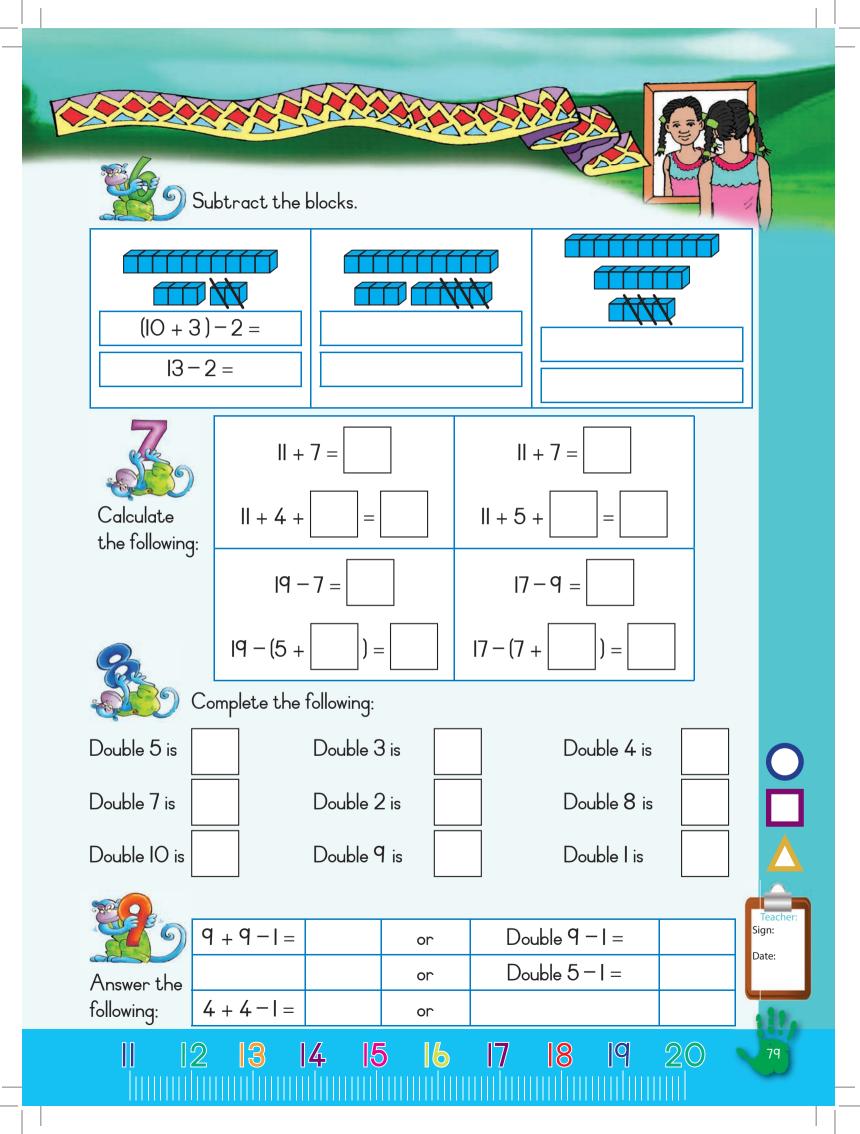
Write a number sentence for the following:



Term 4





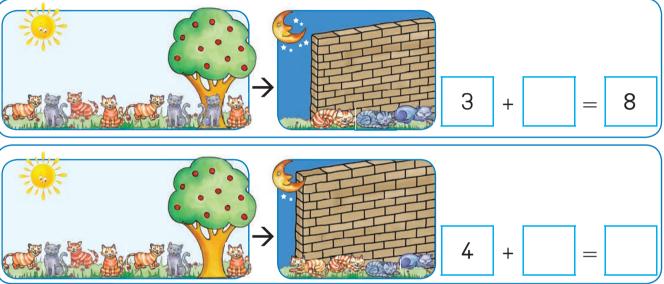


# Addition and subtraction



Term 4

Count how many cats there are sitting in the sun. At night, some of them go to sleep behind the wall. Work out how many are behind the wall and write it down.





Solve the following. You can make a drawing to help you.



Lerato had 4 oranges. Peter gave her 13 oranges. How many oranges does she have now?

5

Mandla has 5 pencil crayons. Anne has 8 pencil crayons. Who has fewer pencil crayons?

4

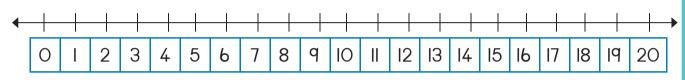


Q



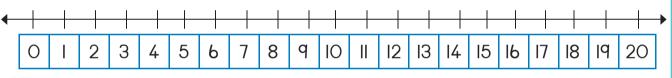
Use a number line to solve the following:

Thandi has 6 green and 9 blue marbles. How many marbles does she have?



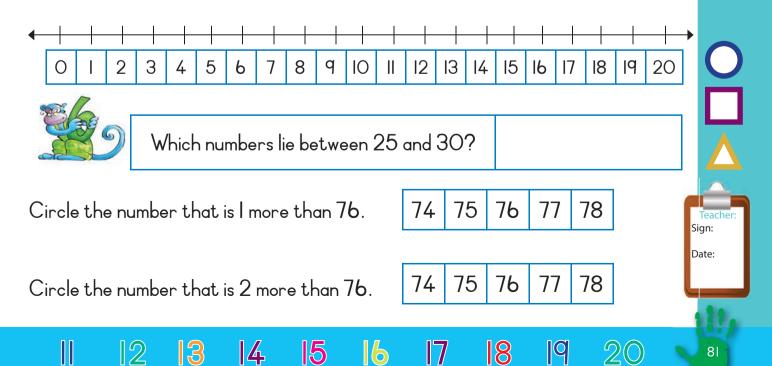


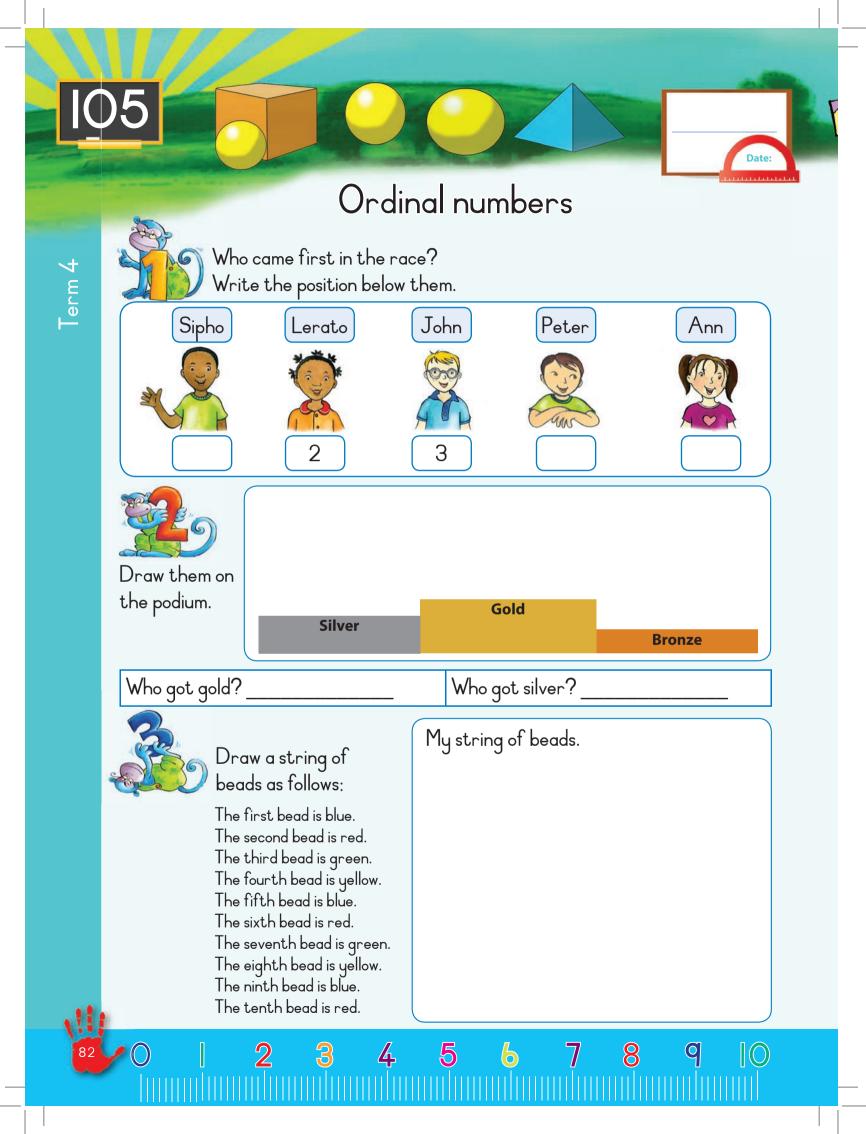
Lerato has 16 marbles. Eight are green and the rest are blue. How many blue marbles does Lerato have?





Thandi has 19 bananas. Themba has 10 bananas. How many more bananas does Thandi have than Themba?





Look at the order of the shapes. Copy the shapes in the correct places in the table. We have done the first one for you.



Which shape is:								
Fourth		Seventh						
Fifth		Ninth						
Second		Last						
Third		Sixth						



Do the following:



6

8

17

9

20

Sign: Date:

83



Colour the first circle red.



Colour the fifth circle yellow.



Colour the eighth circle blue.

|4



12

13

Draw a 10 to 20 number line. Circle the third and the eighth numbers.

## Objects and shapes

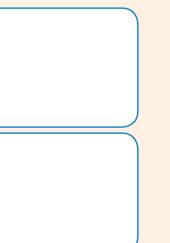
Revision:

Revision: Complete the pattern.

Term 4

Find two pictures of a ball and two pictures of a box in a newspaper or magazine and paste them below.





Draw a blue circle around all the objects that can slide. Draw a red square around all the objects that can roll.





Trace the word then draw the object.



Х

8

9

Count all the triangles and write the number.

Х



Trace and count the shapes.

13

 $\mathbb{I}^2$ 

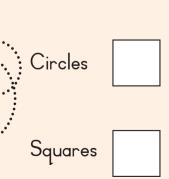


15

|4

6

17



20

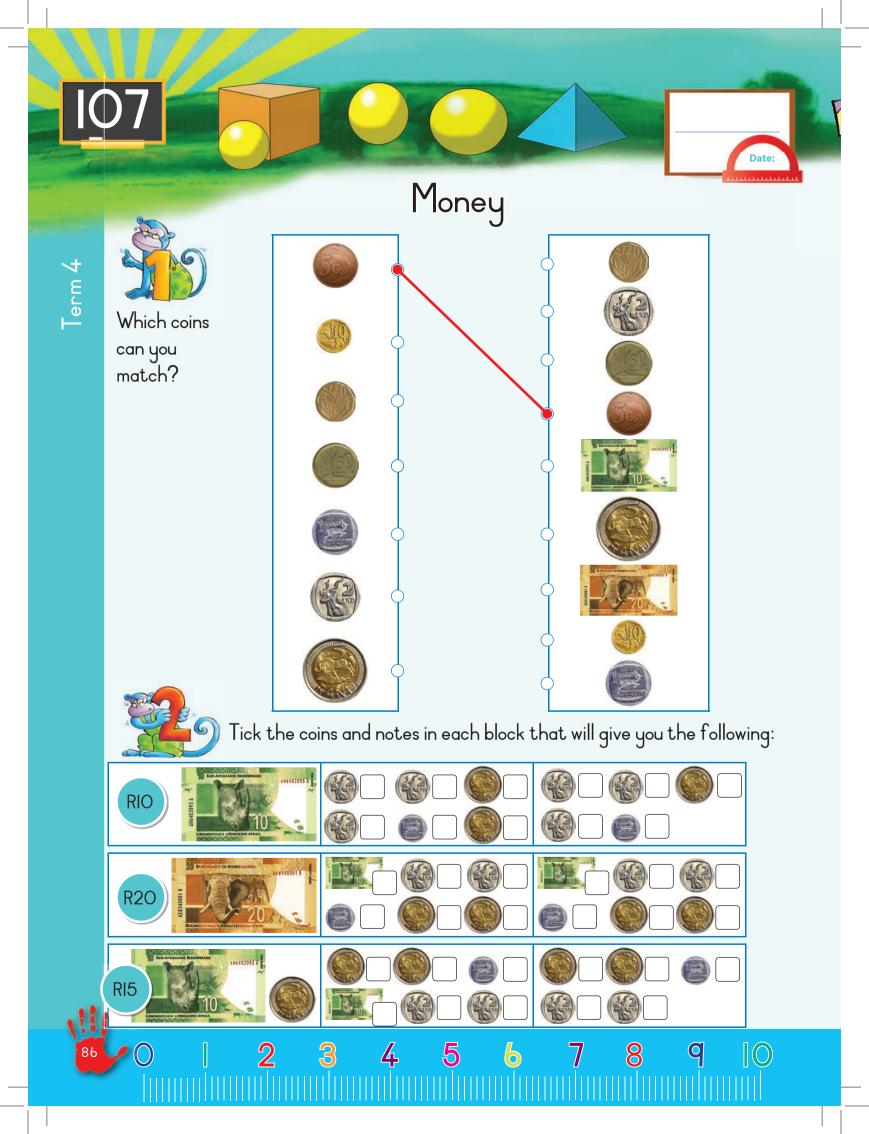
Answer:

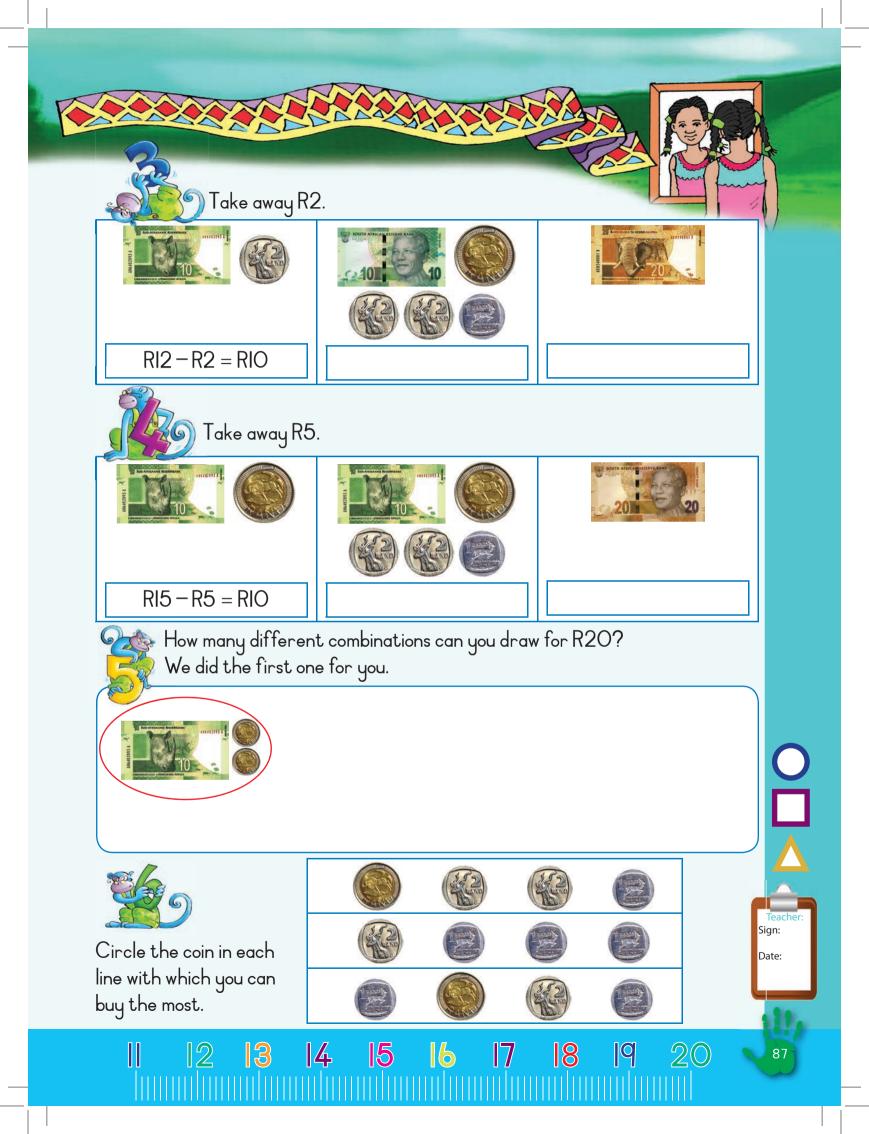
85

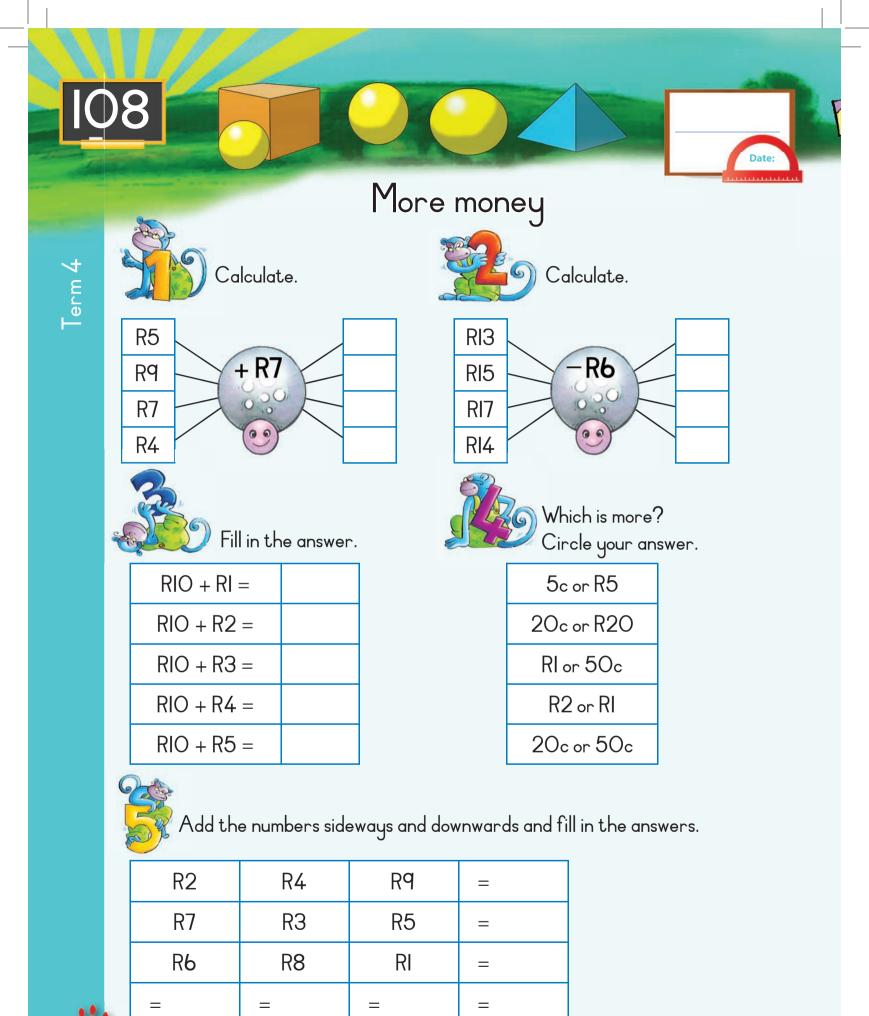
Sign:

Date:

-







q

Look at the example and complete the rest.

RIO R7 RI7 += **RI6** = +**RI5** = +RI4 +=RI3 = +RI2= +



James bought bread for R8. He paid for it with a RIO note. How much change did he get?

What is the question?

Write down the numbers.

Write down the sum and calculate it.



Busi's mother bought a hat for RI7. She paid with two RIO notes. How much change did she get?

What is the question?



6

15

Judy's birthday was on Sunday. She received R5 from her sister, R2 from her brother and RIO from her cousin. How much money did she get altogether?

What is the question?

Write down the numbers.

|2|

Write down the numbers.

Write down the sum and calculate it.

13

4

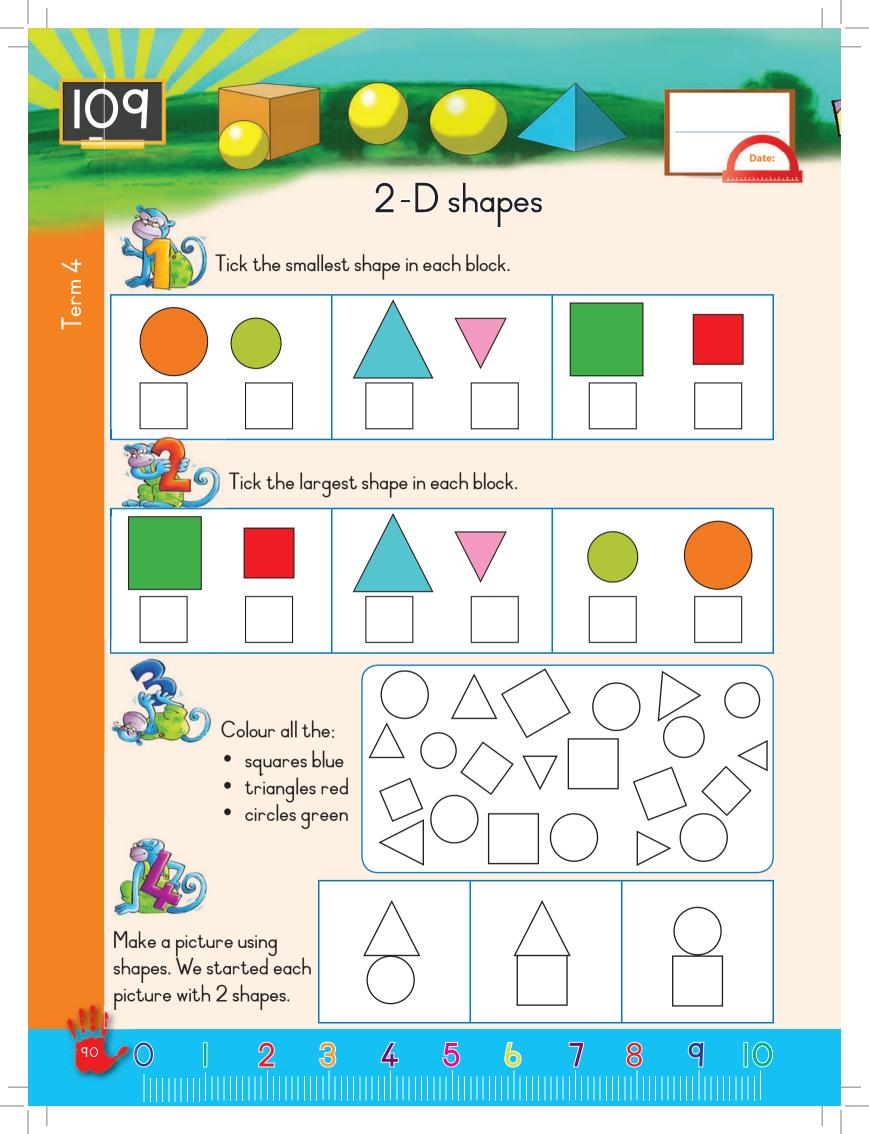
Write down the sum and calculate it.

Q

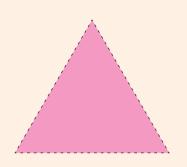
20

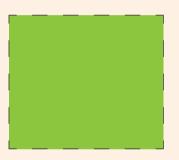
8

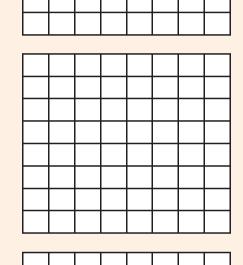




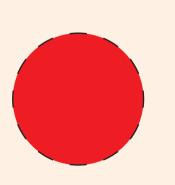
Draw the shapes in the grid. Use the small squares to help you.











3

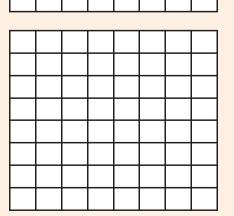
12

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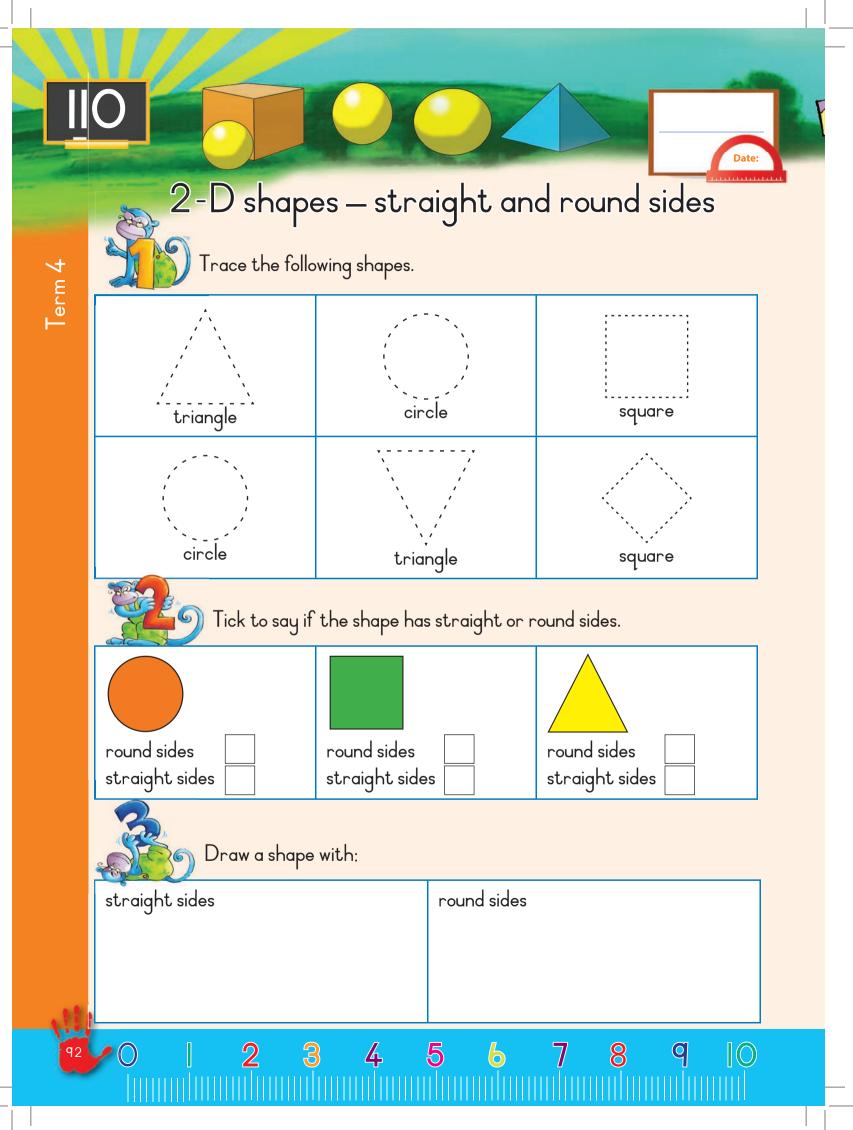
17

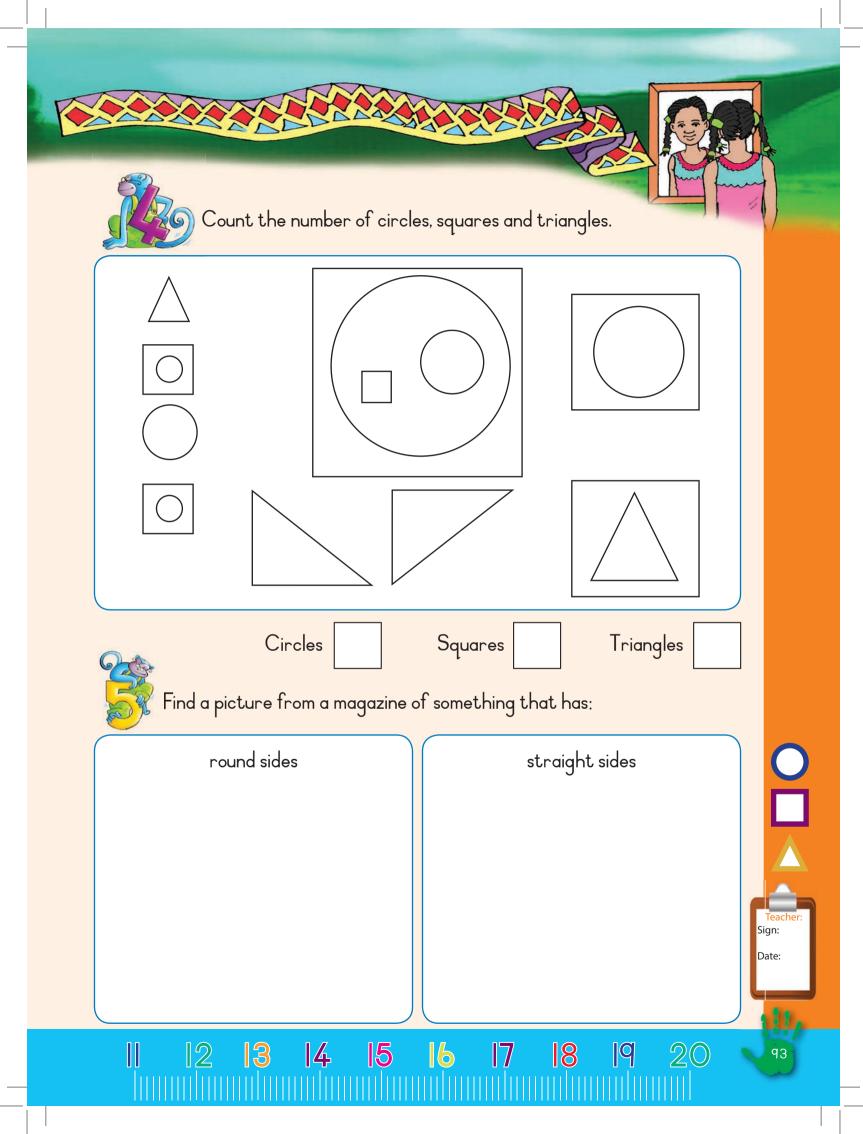
8

19 20

Teacher: Sign:

Date:





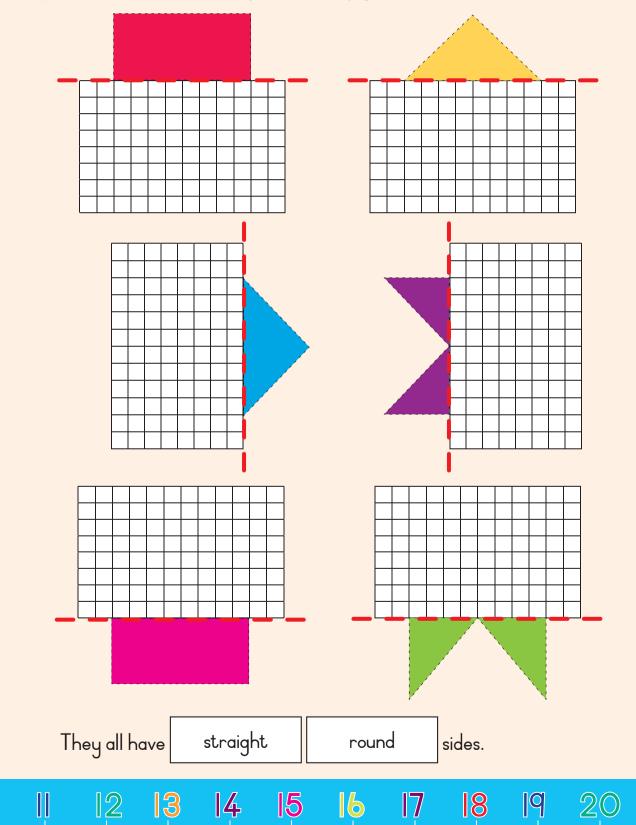
# More 2-D shapes

Date:

T<sub>erm</sub> 4

200	More 2-D shap	bes
Name the follo	wing shapes:	
Draw your or	wn picture using circles, tria	ngles and squares only.
	<b>3 4 5 6</b>	

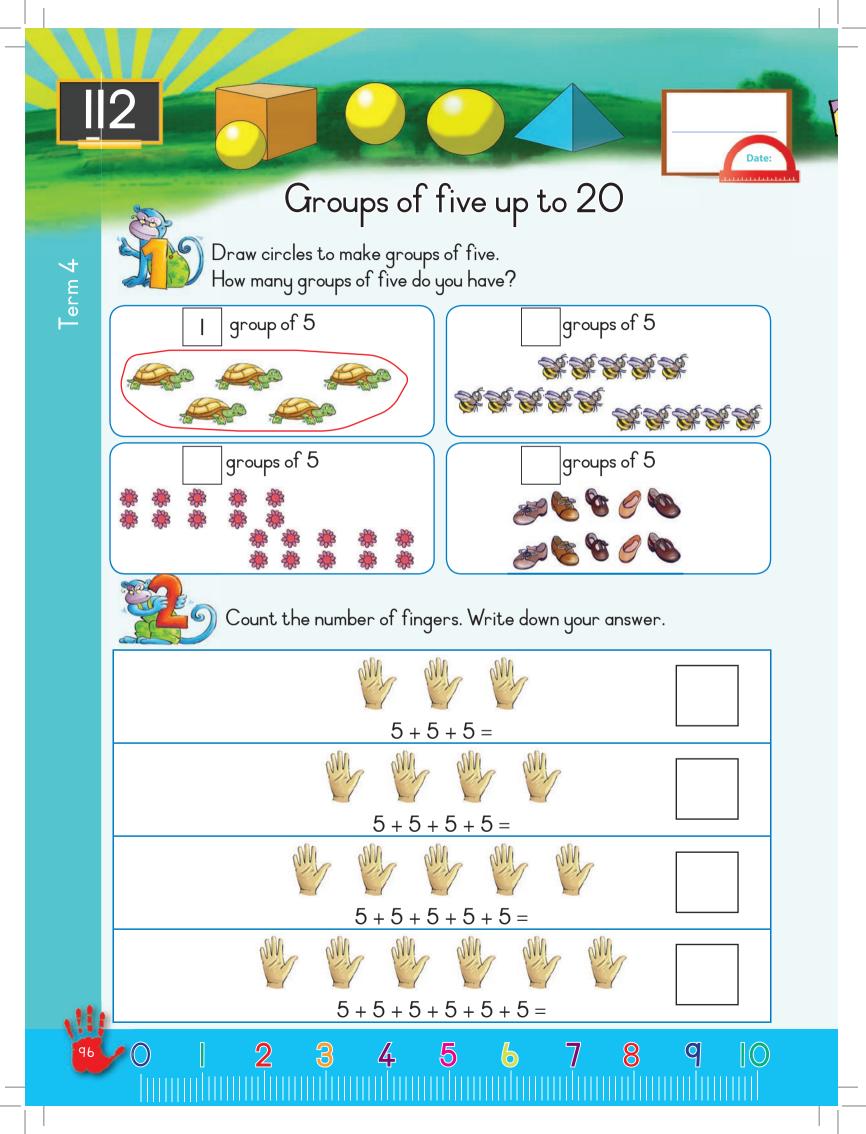
Draw the other half of each shape. Use the small squares to help you.



Draw th

95

Teacher Sign: Date:



Write a number sentence for each of the following: Answer the questions. How many 5c coins do you see? Write it as a number sentence:

Teache Sign: Date:



Fill in the missing numbers.

13

2

I	2	3	4	6	7	8	q	
II	12	13	14	16	17	18	19	

|4

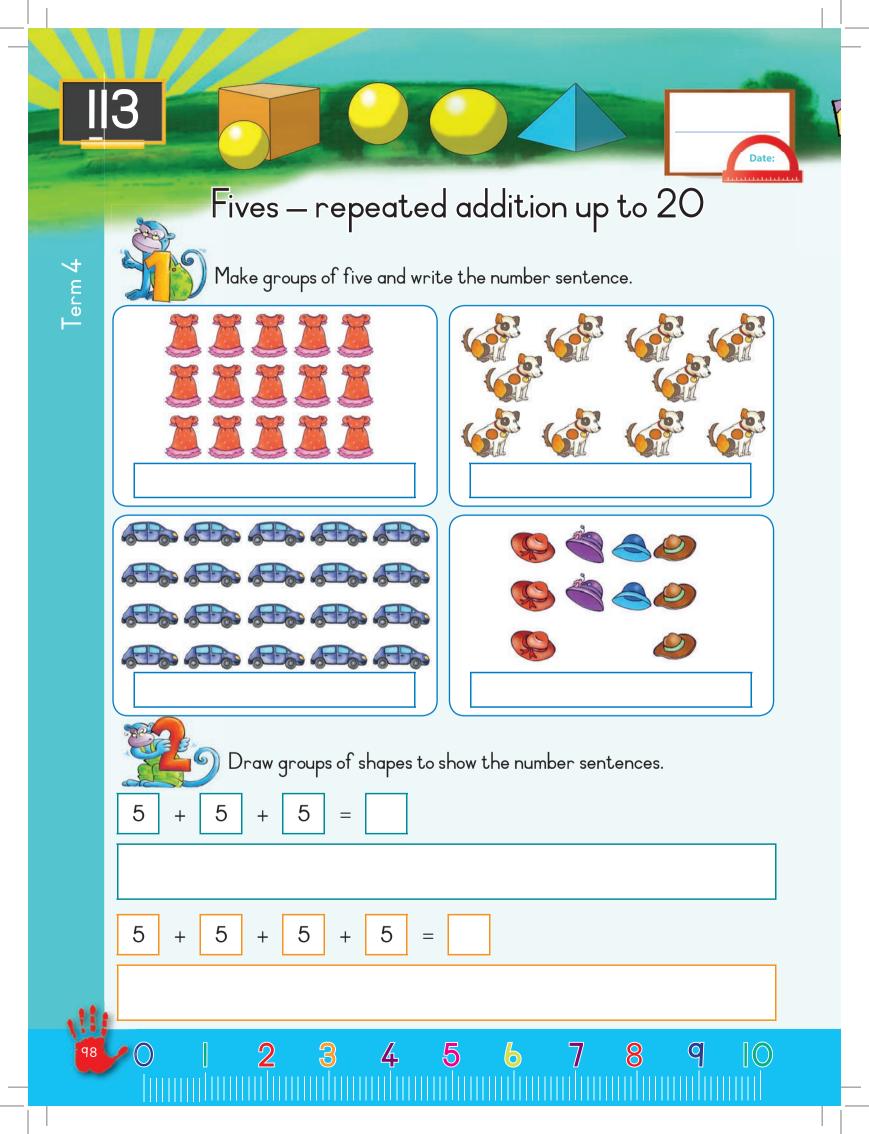
15

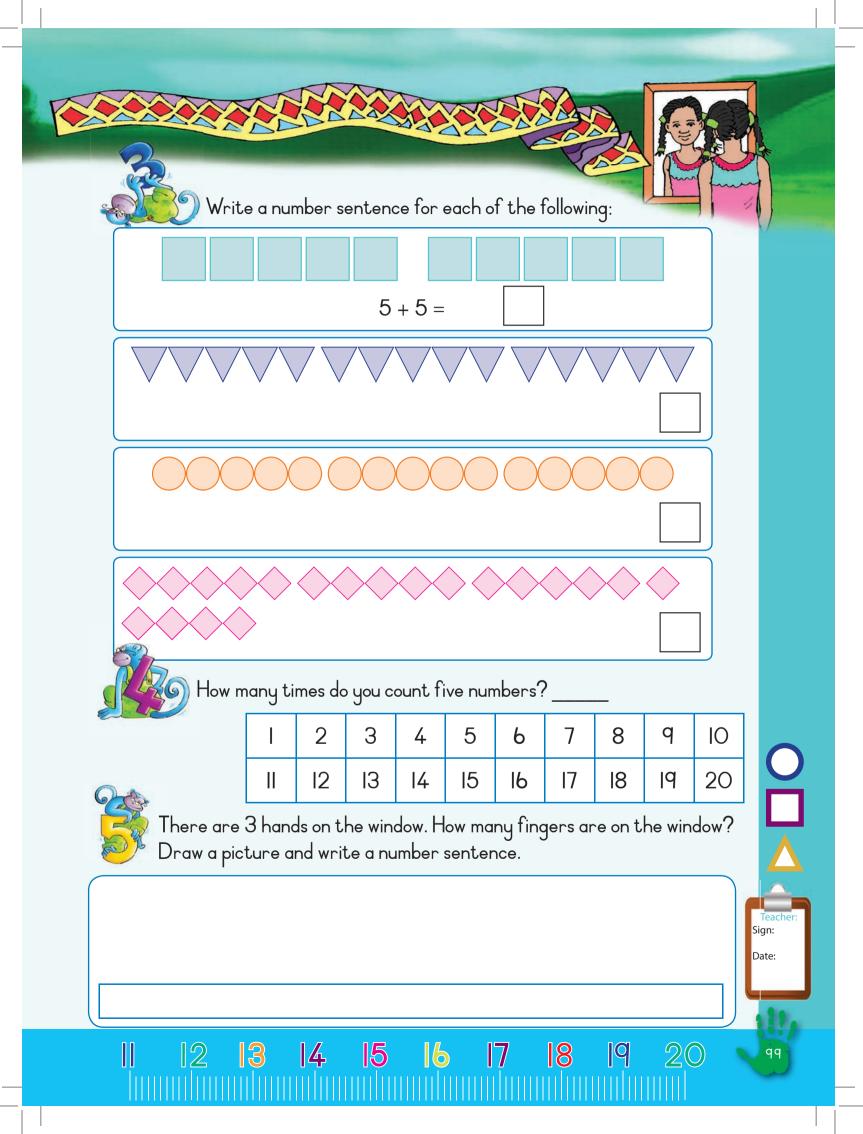
6

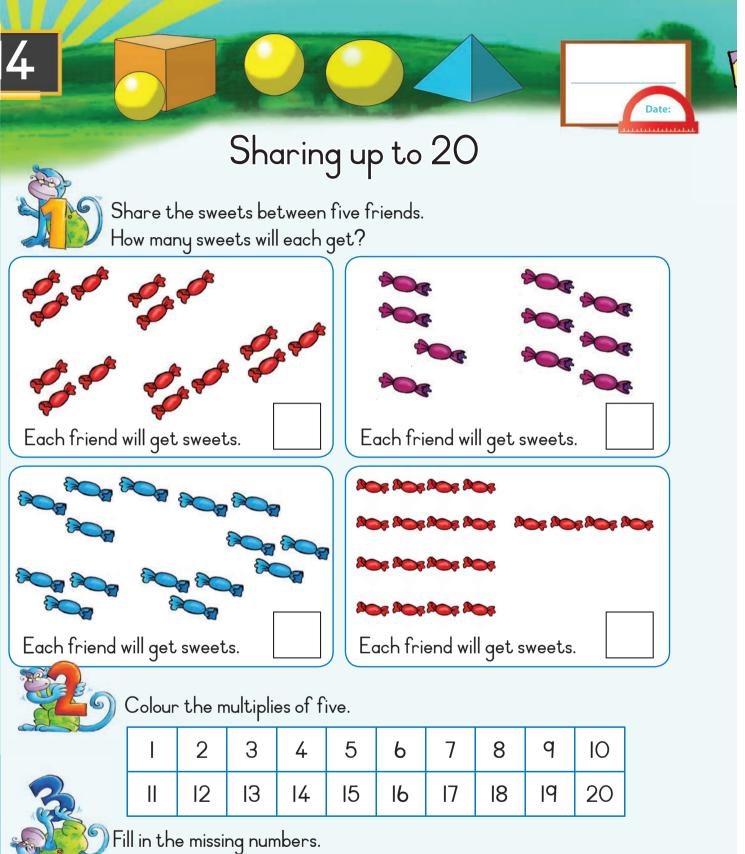
17

8

19







Term 4

 14
 16

 4
 5
 6
 7

Second sec

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Make a drawing to show the following. Are there any counters left?

Share IO counters between five children.	Share 6 counters between five children.	
There are counters left.	There are counters left.	
Share II counters between five children.	Share 16 counters between five children.	
There are counters left.	There are counters left.	
Write a number sentence for ea	ch of the following:	
5+	5 =	
		Teacher:
	Sig Contractions C	gn: ate:
II I2 <b>I3 I4 I5</b>	<b>16 17 18 19 20</b>	IOI

## Number patterns – fives to 100

Date:

STA .

Term 4

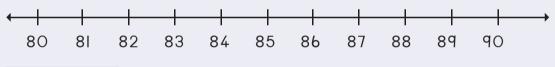
Complete the pattern by colouring the multiples of five.

71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
qI	92	<b>d</b> 3	94	95	96	97	98	qq	100

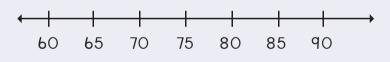


Draw hoops to show the following:

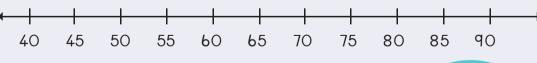
86,88,90



70, 75, 80



55, 60, 65, 70



4

5

6

Use the clock to show counting the minutes in fives.

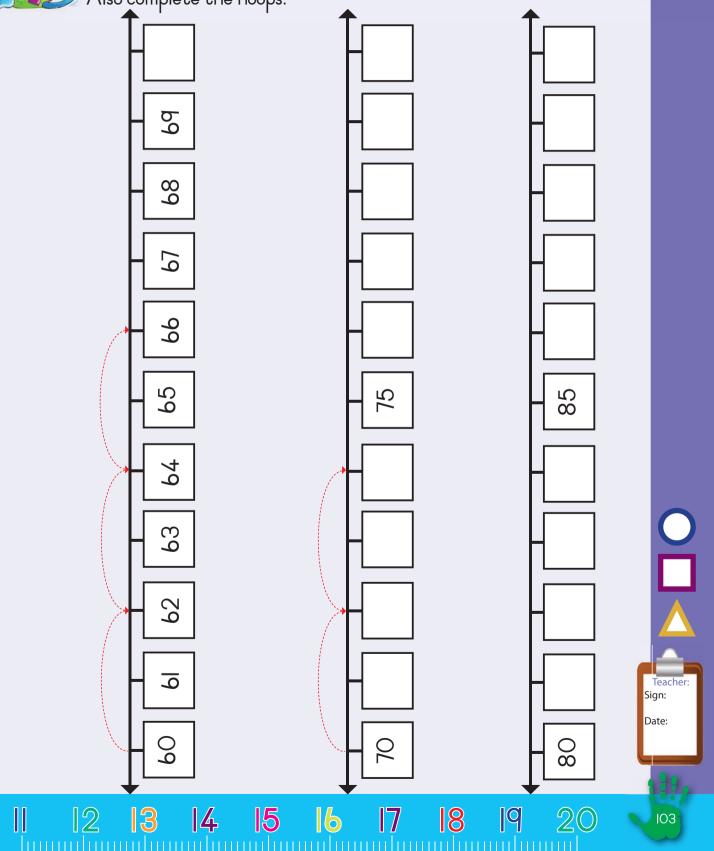
3

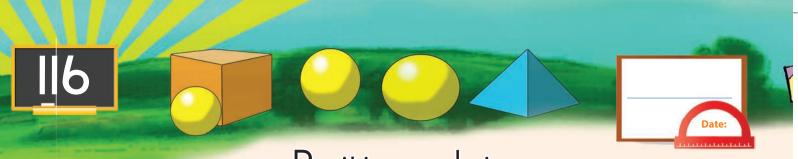
2

8

9

Place numbers from Cut-out 2 on the places where numbers are missing on these number lines. Also complete the hoops.



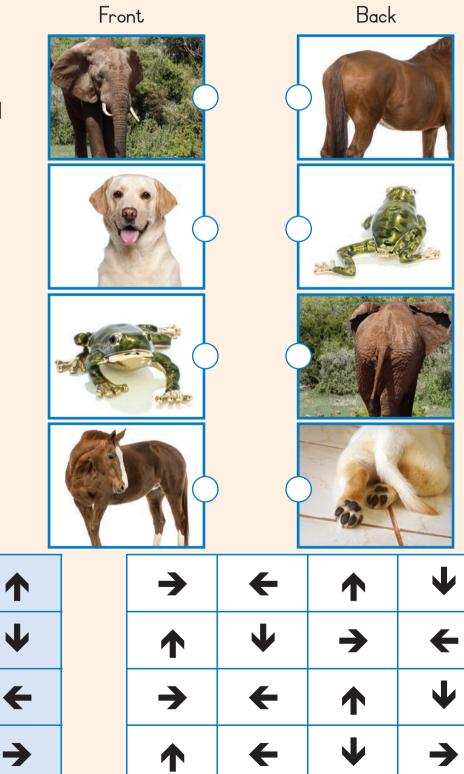


#### Position and view



Match the front and the back of each animal.

Front





Circle the arrow that matches the shaded arrow.

104

2

3

5

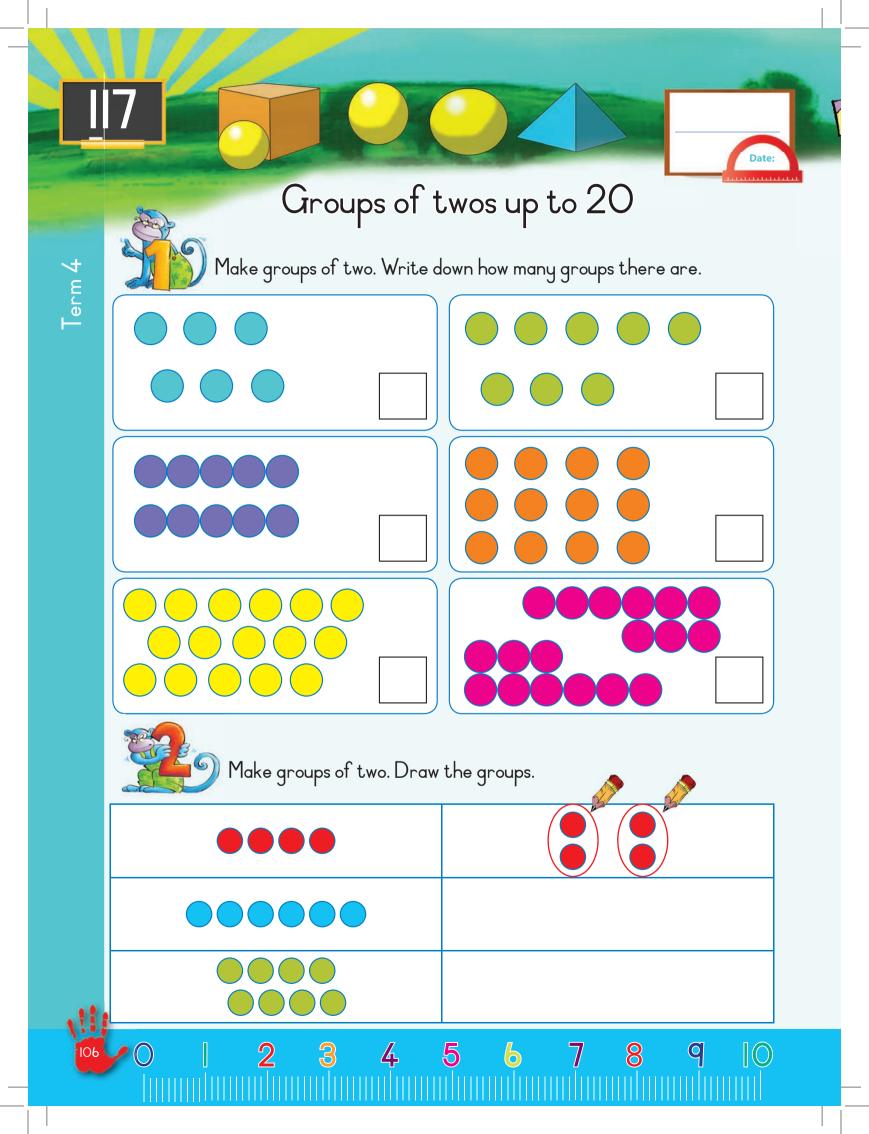
6

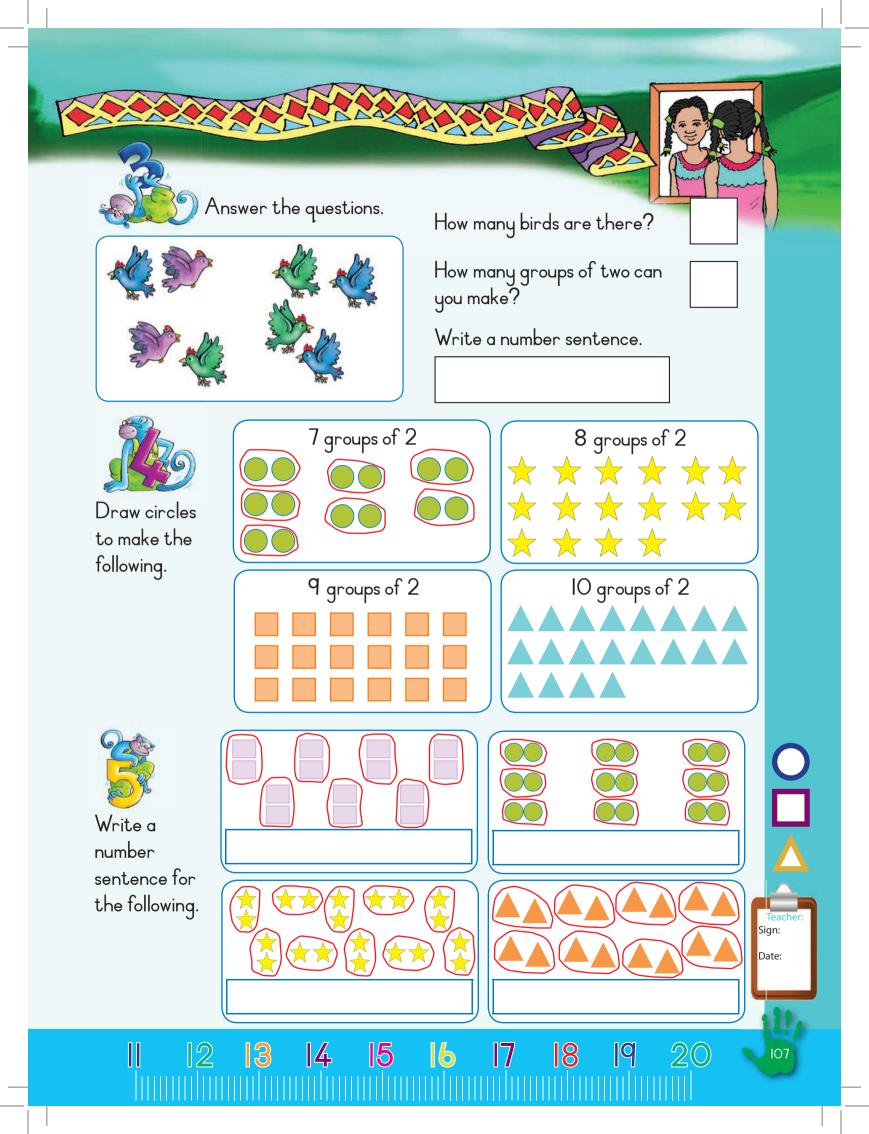
4

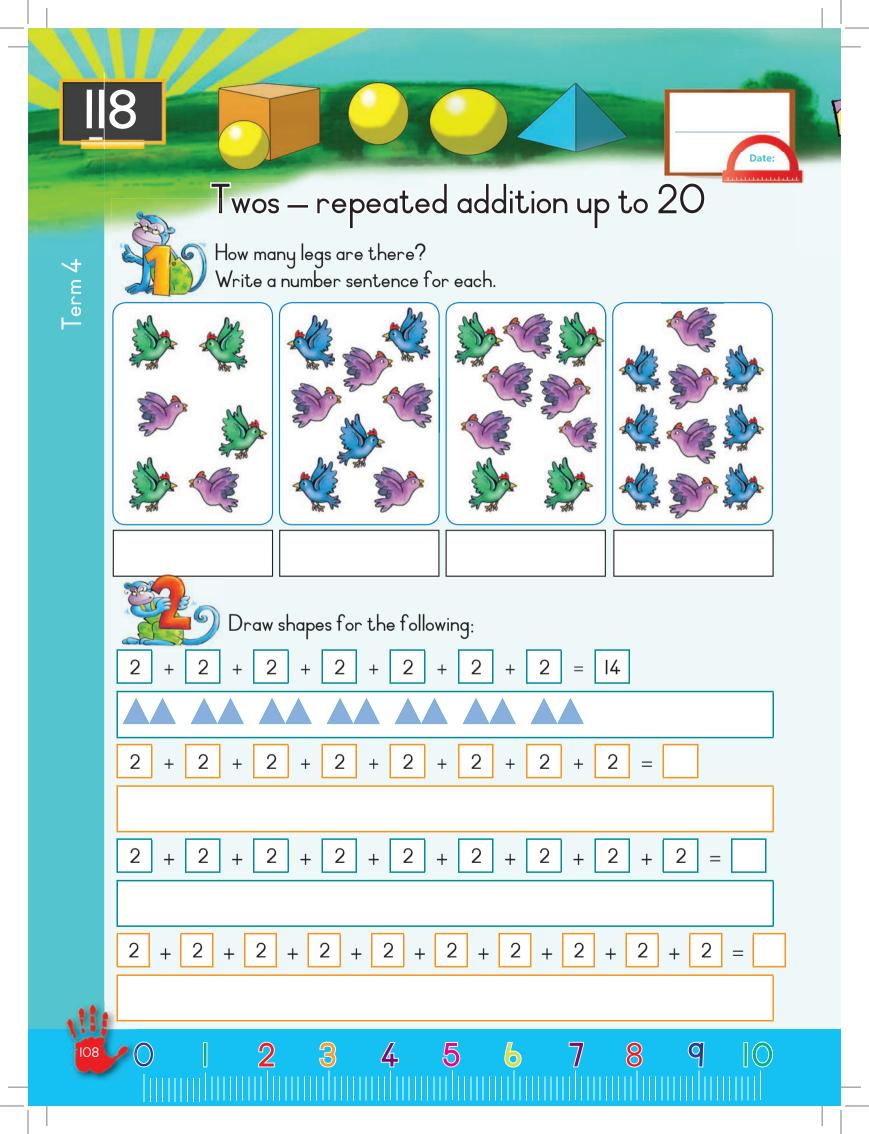
8 7

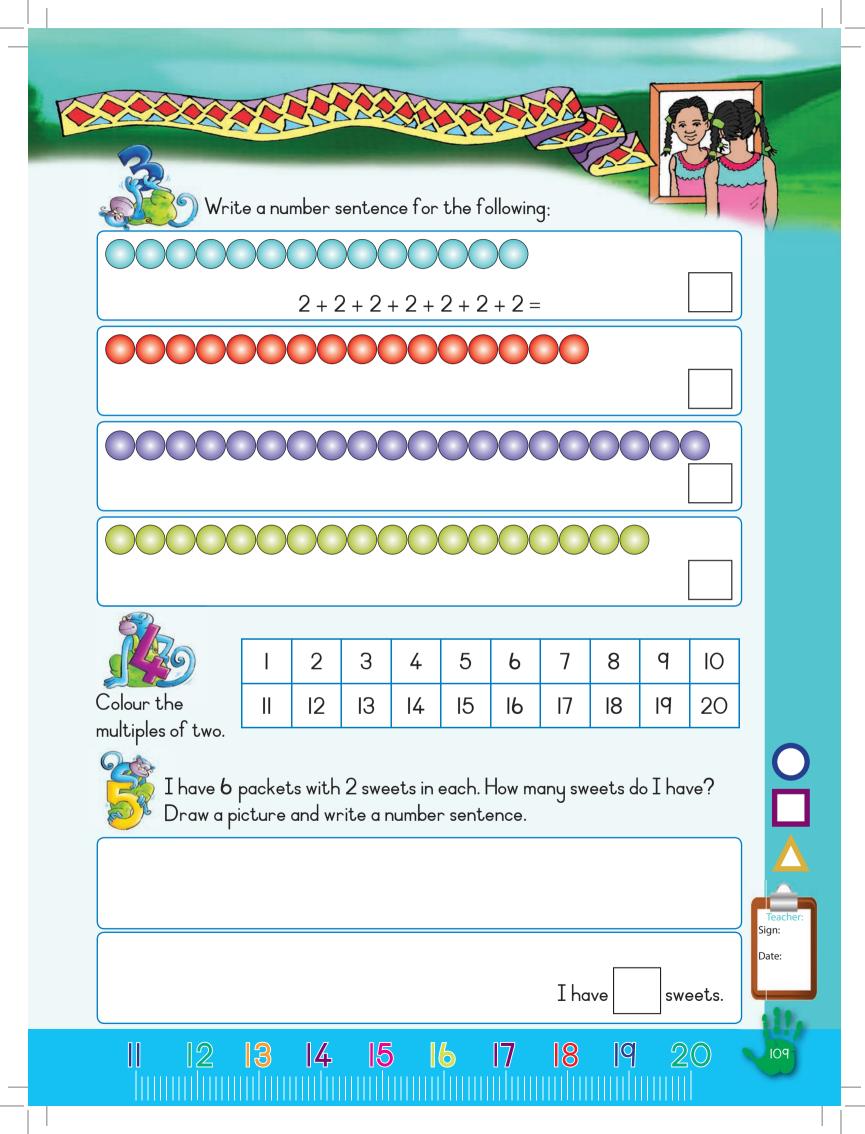
q

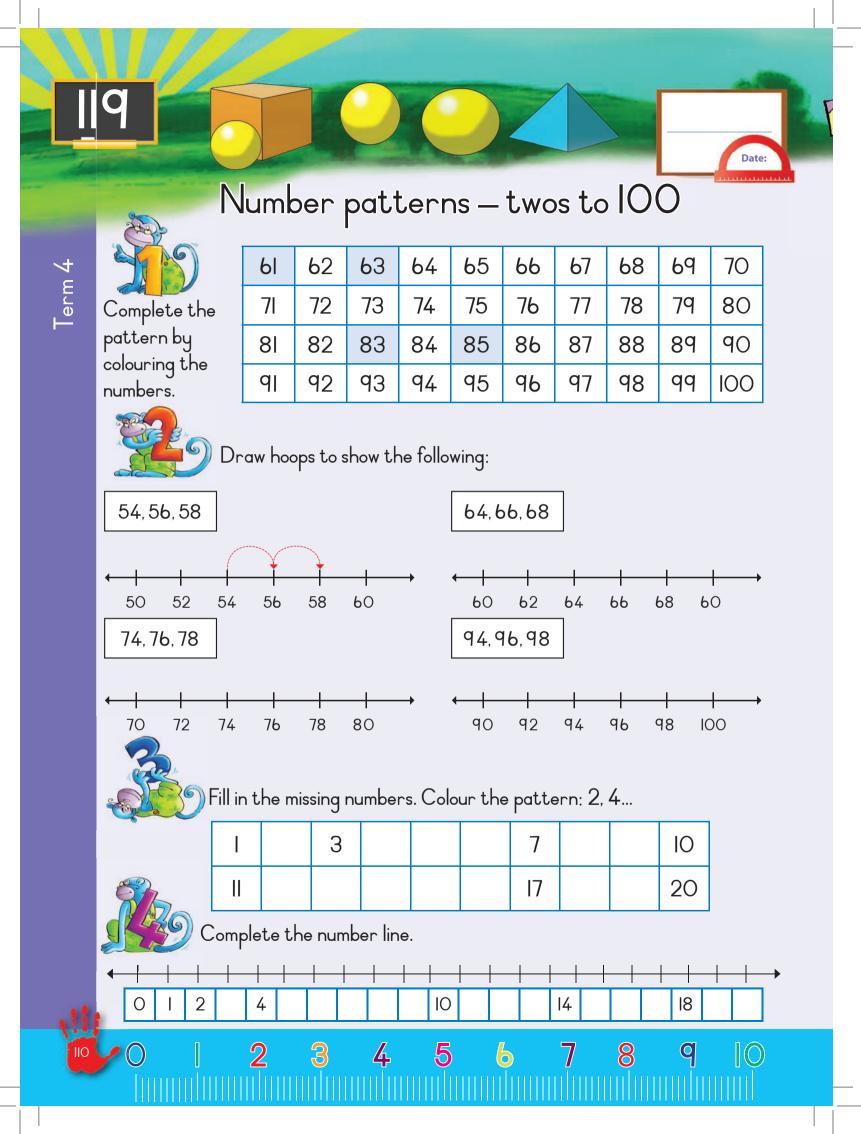




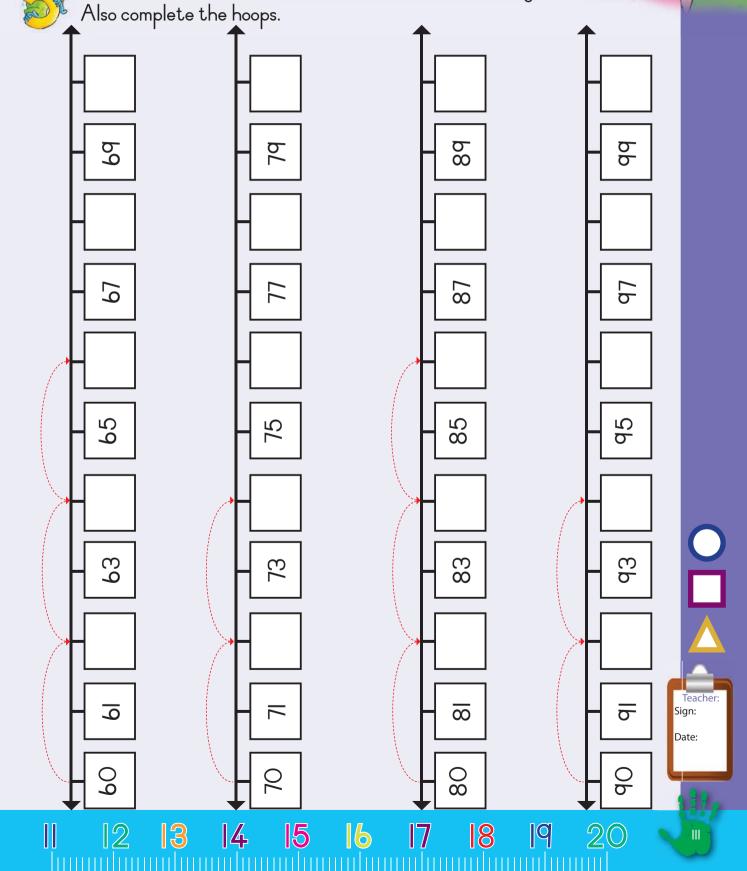


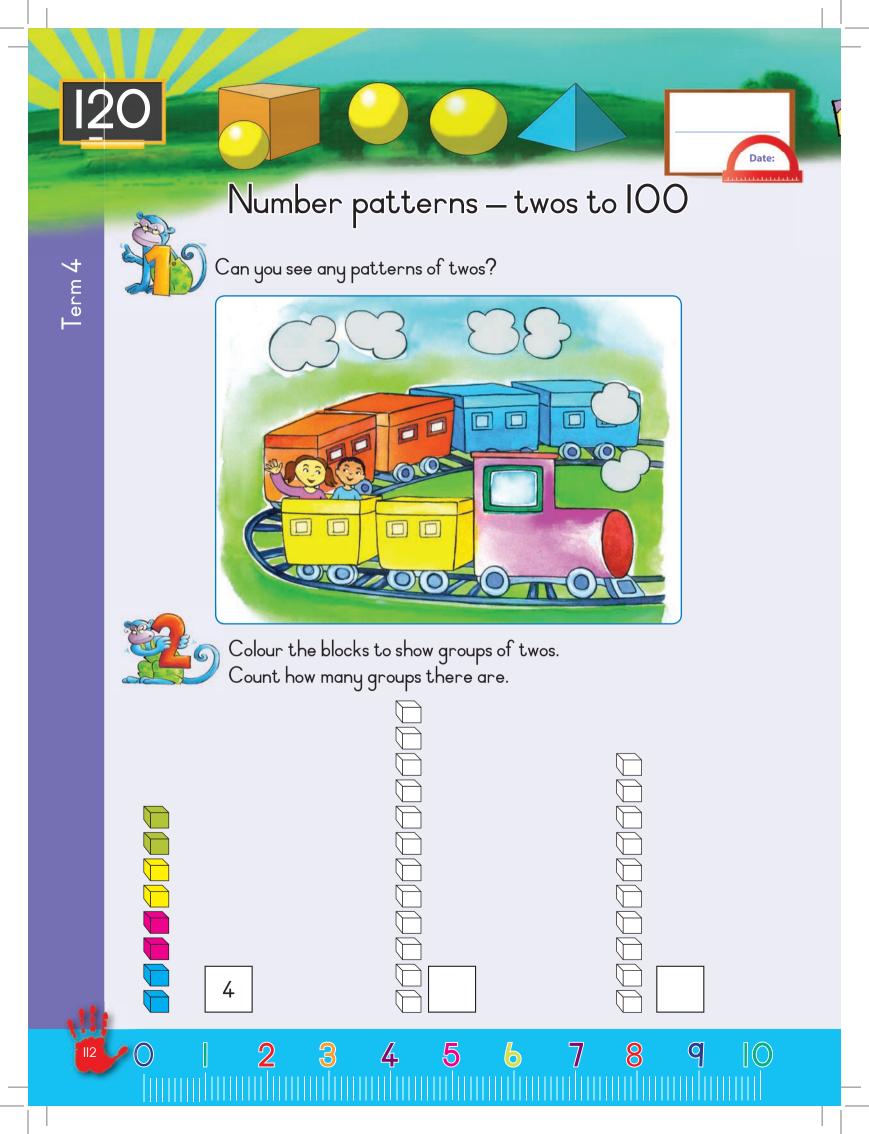




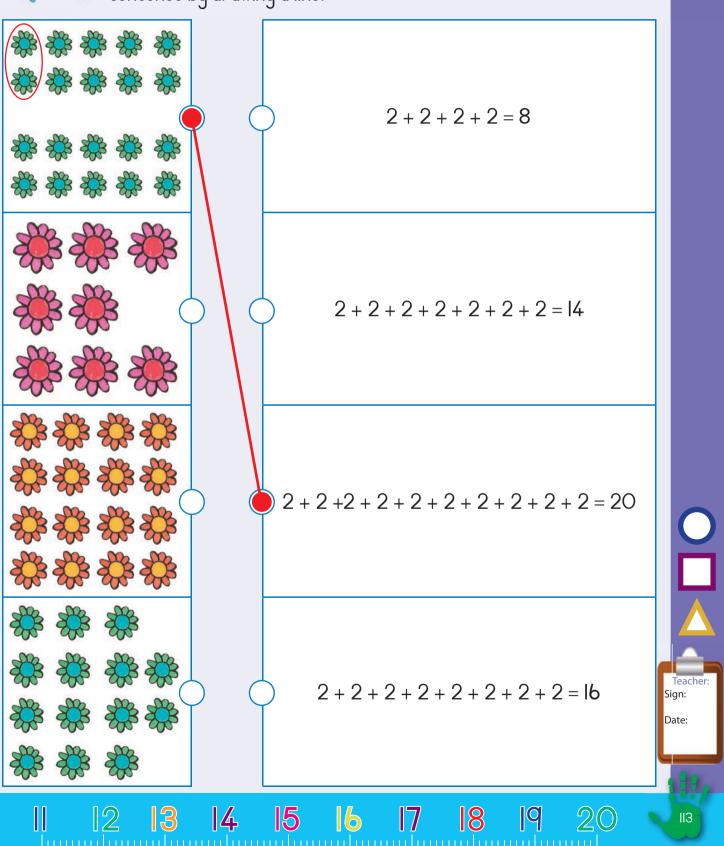


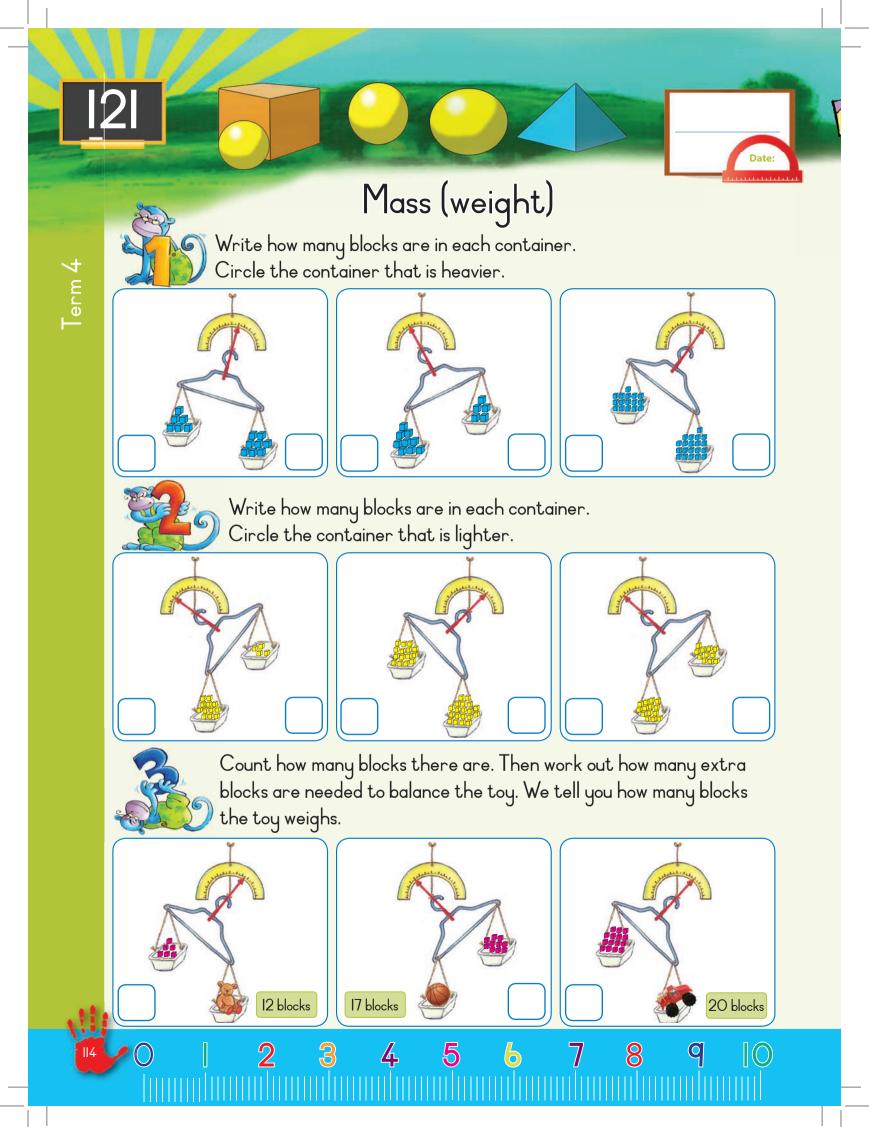
Cut out the numbers from Cut-out 2 and place them on the number lines where the numbers are missing. Also complete the boops



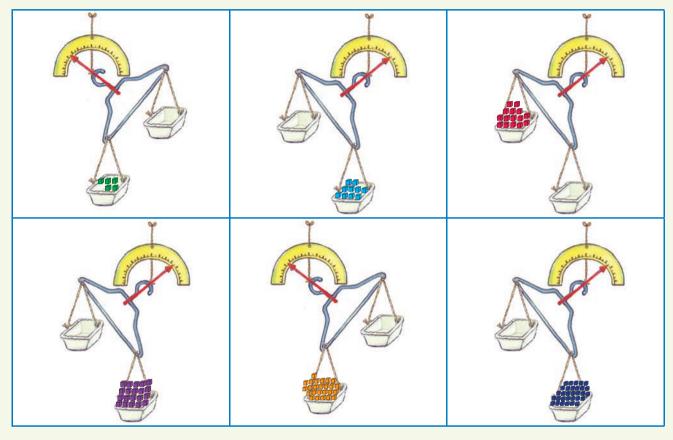


Match the groups of twos with the number sentence by drawing a line.





Draw an object that is heavier or lighter than the blocks.

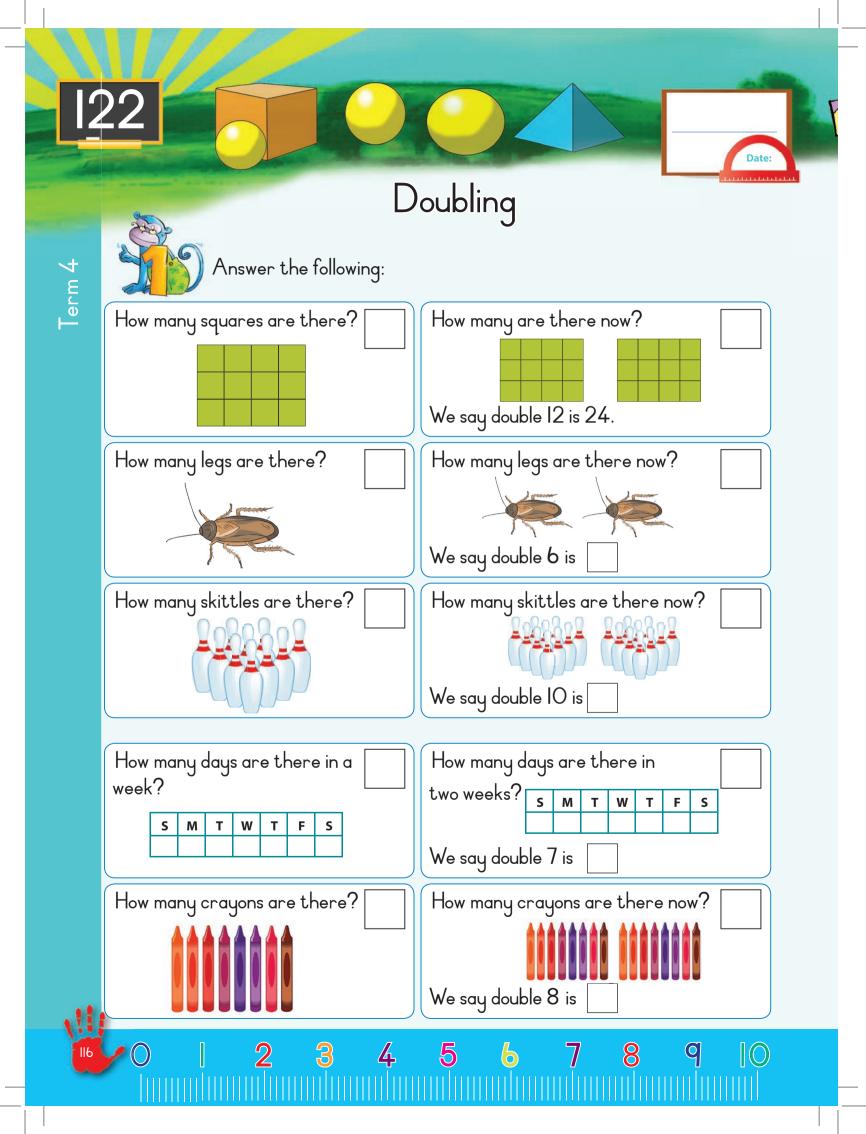


Use 5 objects on your desk. First estimate how much it weighs and then weigh it on a scale or balance to check if your estimation was correct.

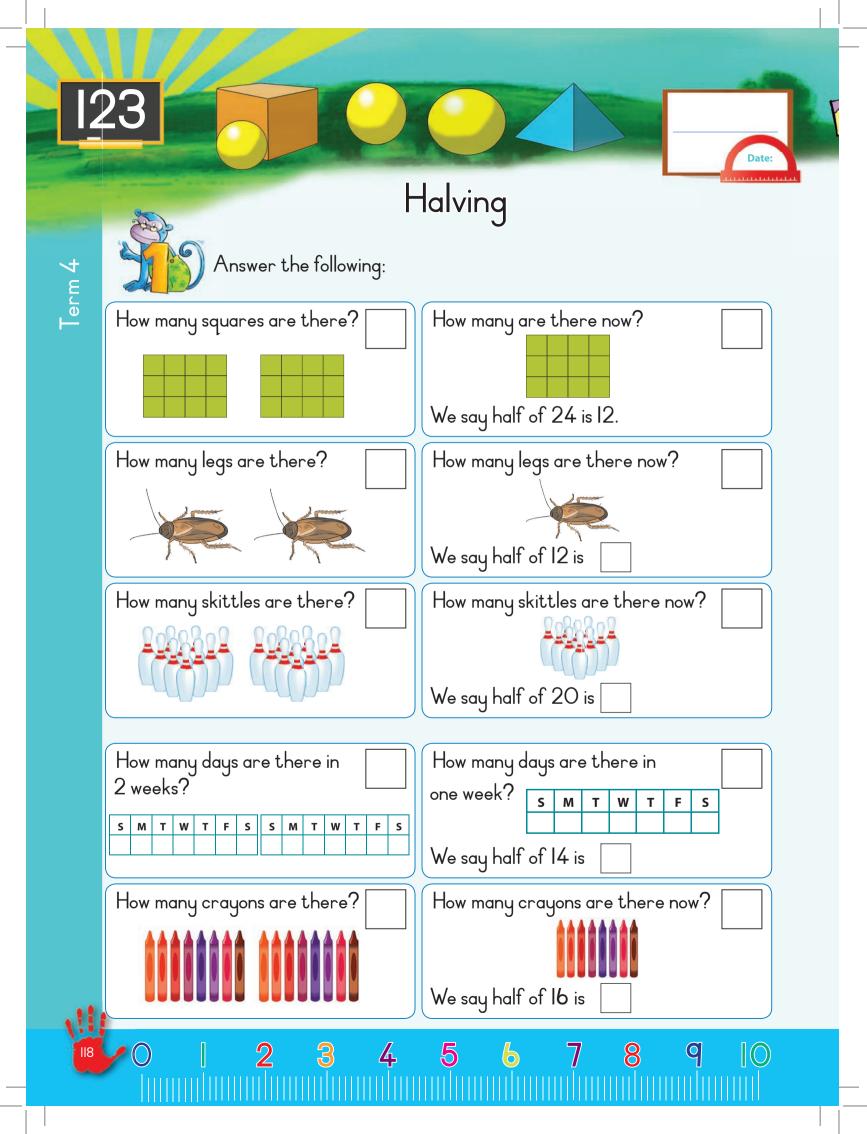
Draw the object	Guess	Mass	Difference	
	blocks	blocks	=	
				Si
				D
				L

|4

( V



						~~~~
20	Douk	ole of 4	=	84		1
Fill in the	Doub	le of IO	=			
answer.	Dou	ole of II	=			
	Douk	ole of 2	=			
2	Douk	ole of 6	=			
Fi	ll in the an	swer.				
Double tv	wo is		fou	r		
Double th	ree is					
Double <mark>fo</mark>	our is					
Double fi	ve is					
Double <mark>s</mark>	ix is					
Double <mark>se</mark> v	ven is					
<b>Л</b> с	omplete tł	ne table.				
q + q + l =	-	or	Double <sup>c</sup>	1 + 1 =		
		or	Double 8	3 + I =		
IO + IO + I =	=	or				
7 + 7 + 1 =		or	Double 7	7 + 1 =		



2 EG

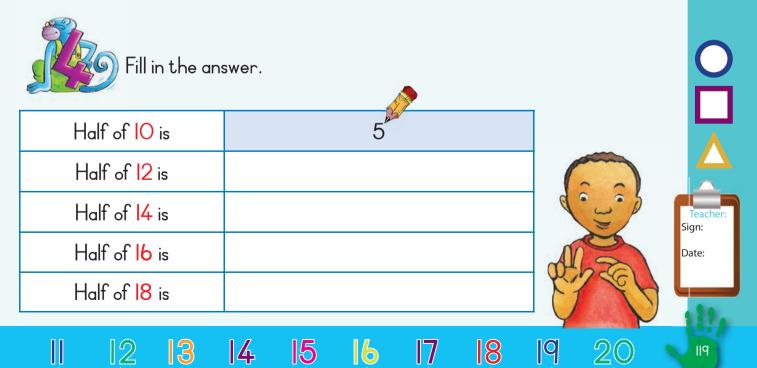
Fill in the answer.

Half of 8	=	4
Half of IO	=	
Half of 6	=	
Half of 12	=	
Half of 14	=	



) Fill in the answer.

Half of <mark>four</mark> is	two				
Half of <mark>six</mark> is					
Half of <mark>two</mark> is					
Half of eight is					
Half of <mark>ten</mark> is					



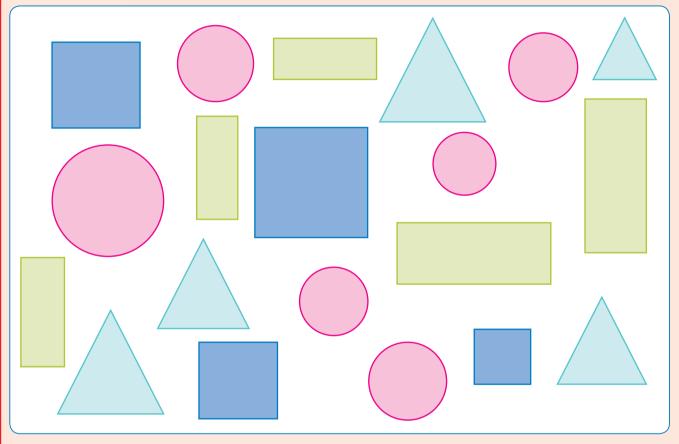
#### Data

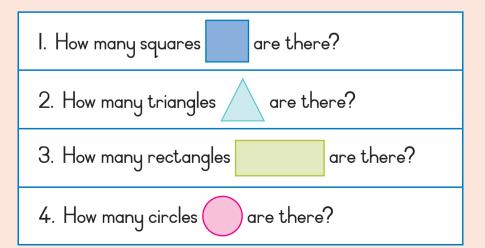
Date:



Term 4

Count how many different shapes there are, and then answer the questions.





These fruit were chosen by 20 of your friends. Sort the fruit and make a drawing on the pictograph of the fruit that you sorted and then answer the questions below.

Our favourite fruit?

Key =

UŤ	Strawberry	Apple		Pear	Banan	a	Orange		
How many	y children like st	rawberries?							$\bigcirc$
How many	y children like ap	oples?							
How many children like pears?									
How many children like bananas?									
How many	y children like or	anges?						Te Sigr	eacher: n:
Which fruit do the children like the most?								Dat	e:
Which fru	iit do the childr								
ų	12 <b>13</b>	4  5	<b> </b> 6	<b>17</b>	8	9	20	1	121

# 125 OOOL Let

#### More data



Term 4

Children in a class have the following toys. How many of each kind do they have?





Complete the table.

2

3

Тоу	Number
Dolls	
Trucks	
Teddies	
Robots	

5

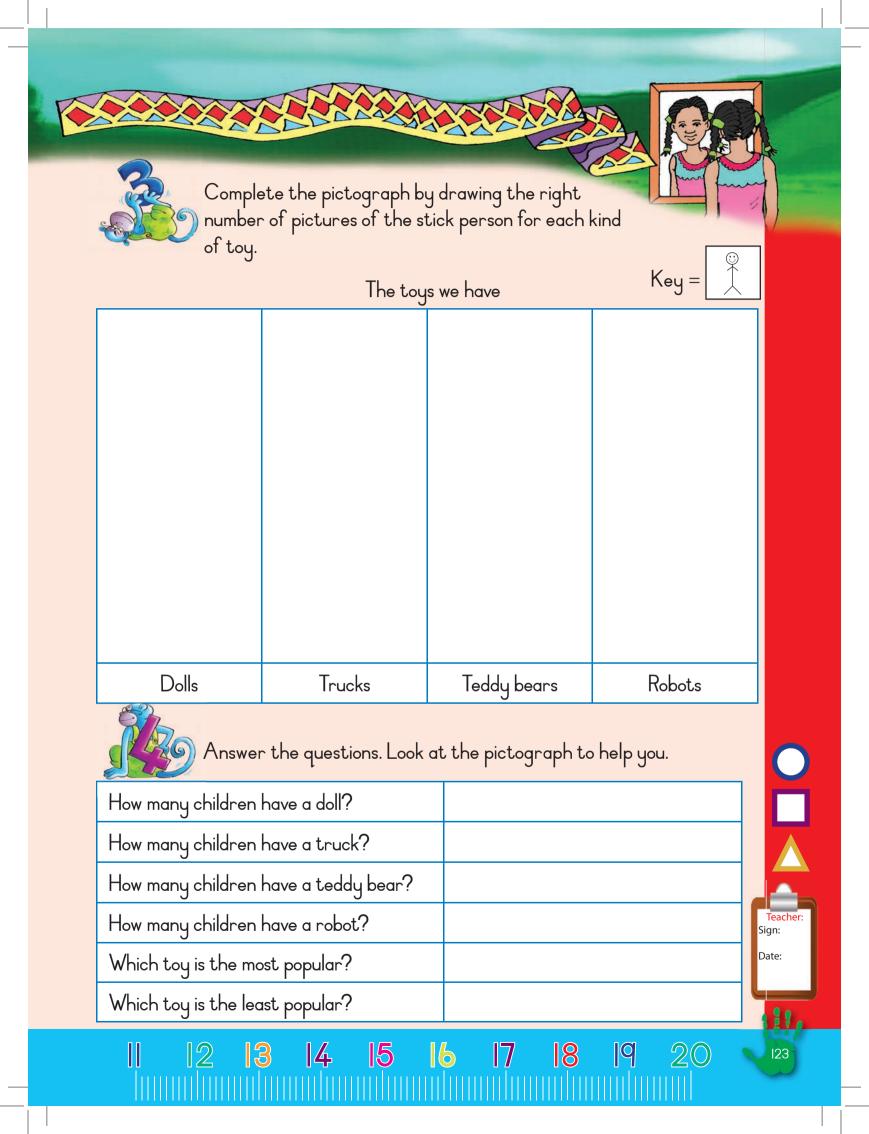
6

4

8

q

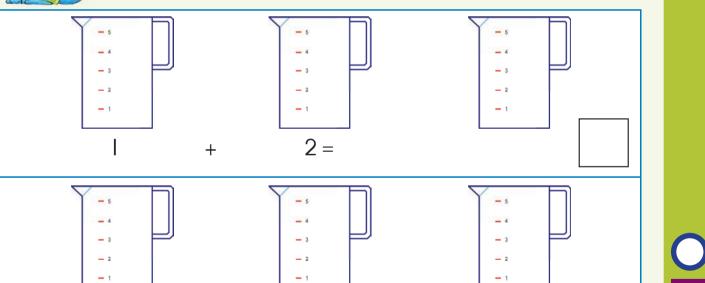
122

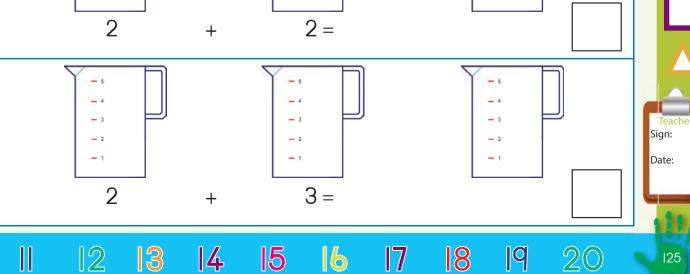


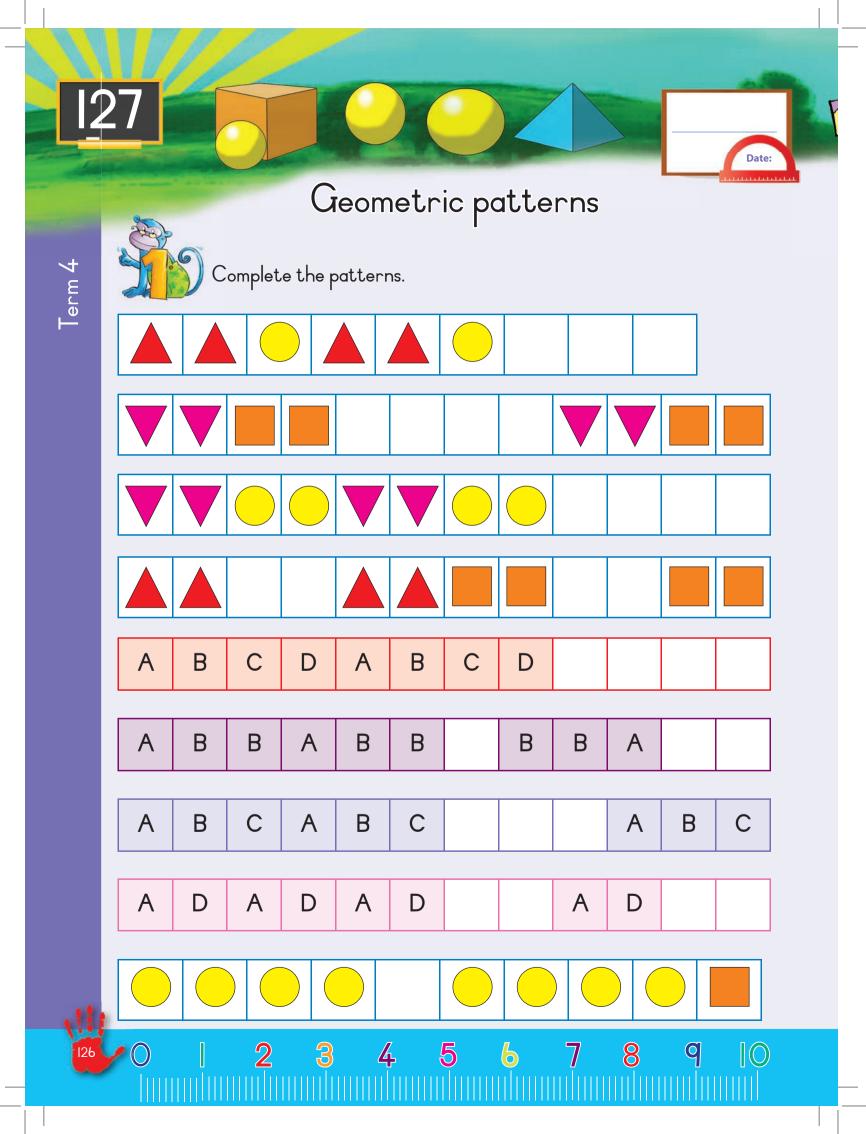


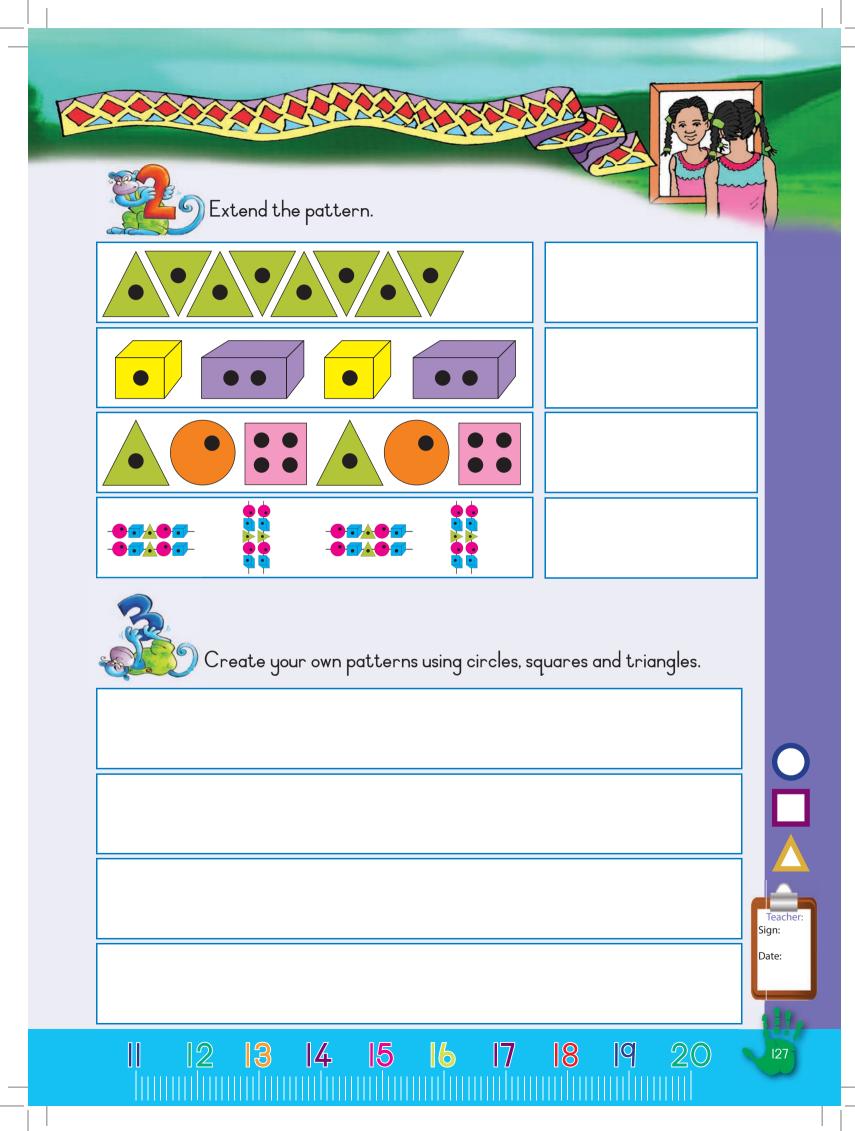
You need five cups to fill one jug. How many more cups do you need to fill the other two jugs? Draw it.

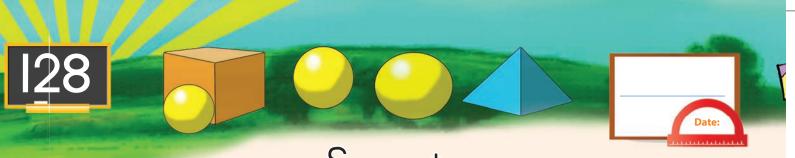
Scolour in the right amount of liquid.









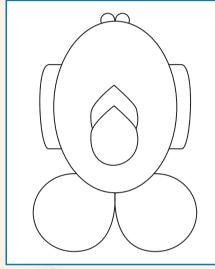


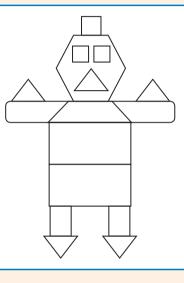
### Symmetry

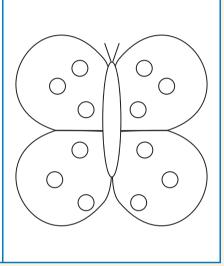


Term 4

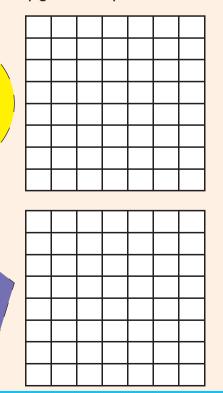
Draw a line of symmetry that divides the picture into two equal halves. Colour one half of each picture.

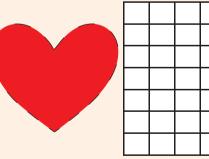


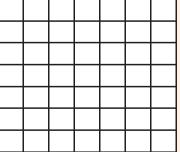


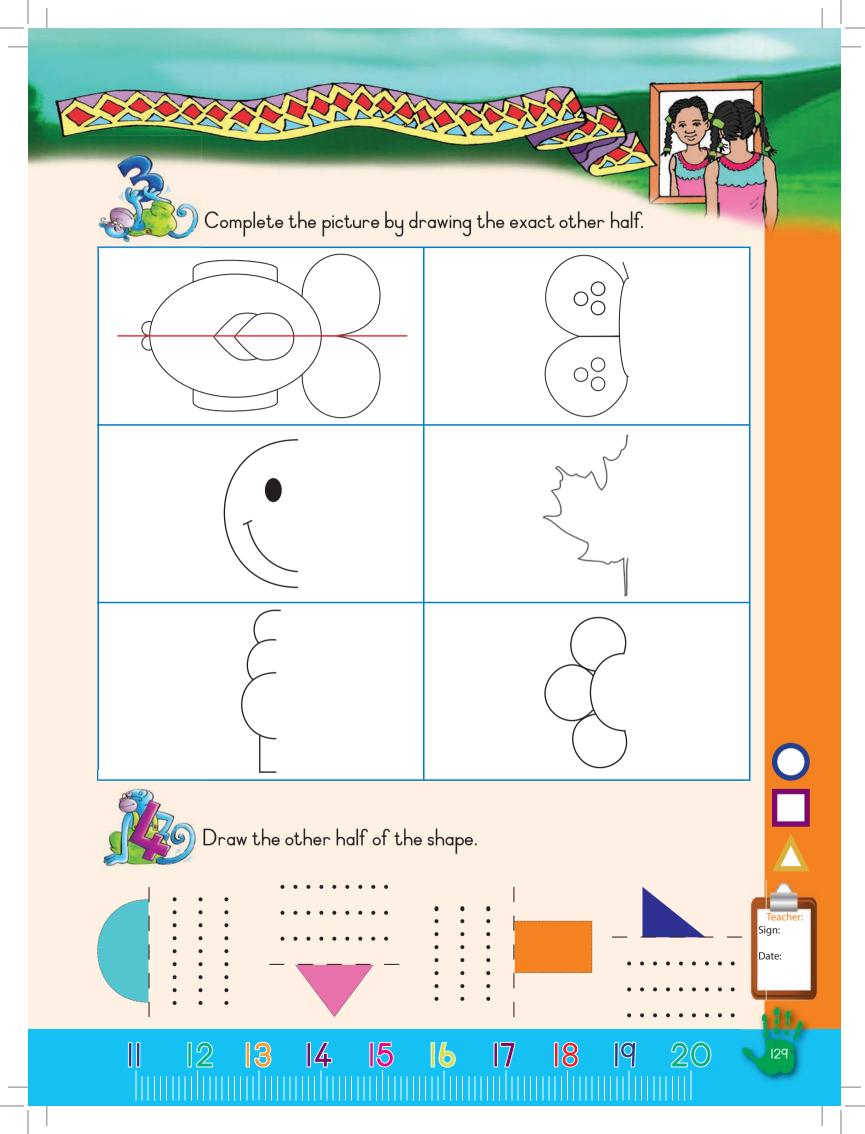


Copy the shapes, then draw a line of symmetry.

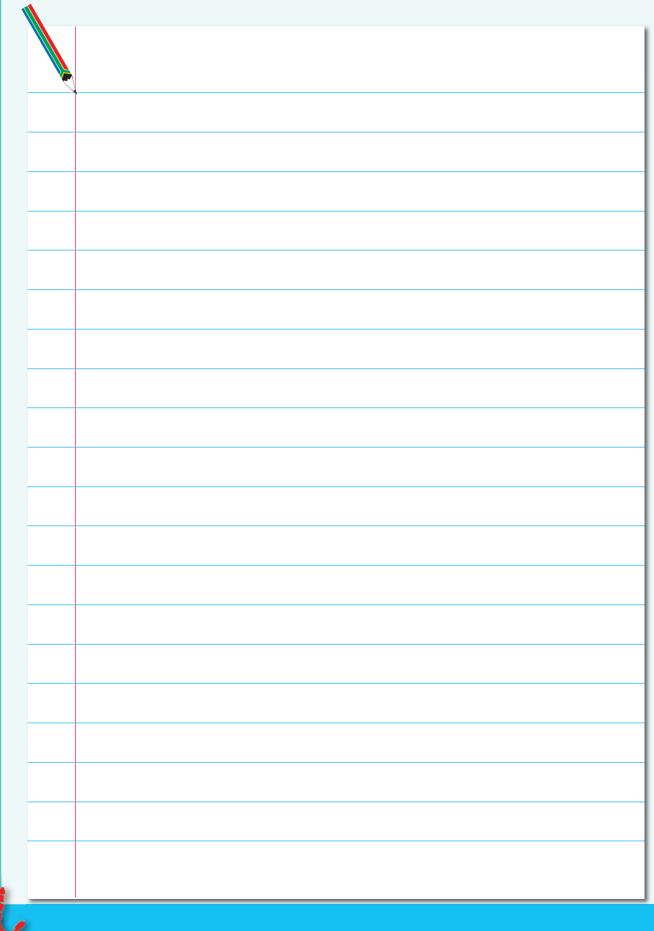




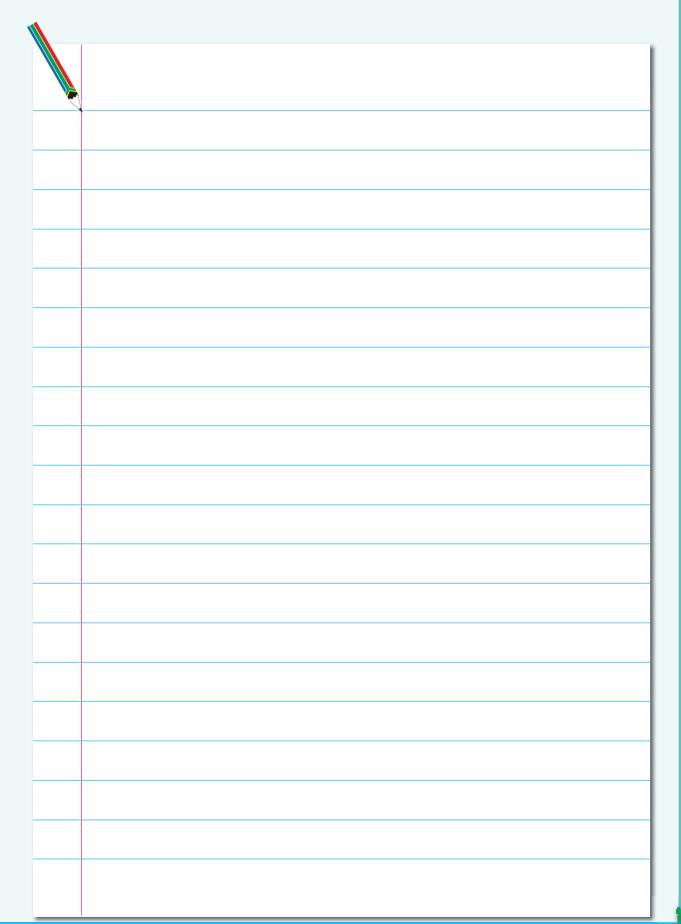




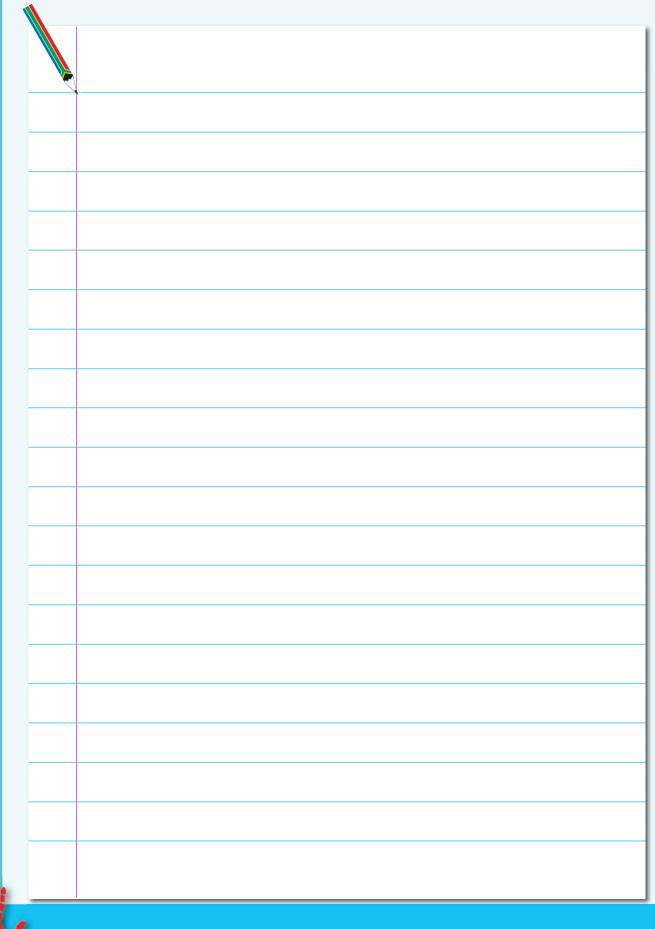
## Notes



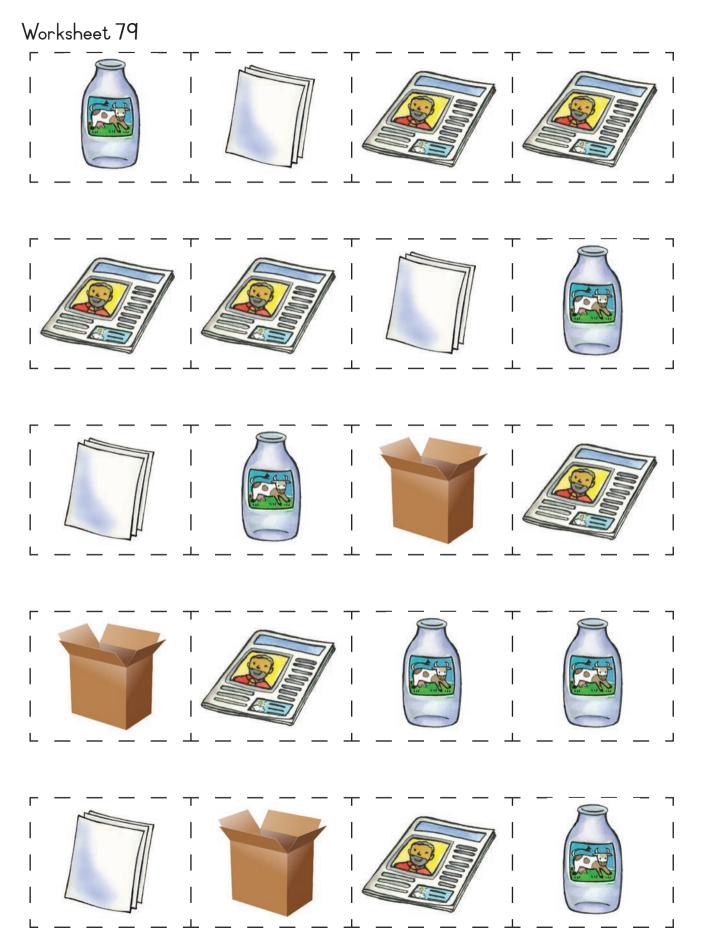
# Notes



## Notes



#### Cut-out 1



\_\_\_\_

#### Cut out cards 2

Worksheet 83 г — ¬ г — г — ¬ г — г — г — ¬ 14511501 40 | 40 | 30 | 35 | L \_\_ J L \_\_ J L \_\_ J ∟ \_ 」 ∟ \_ 」 L \_\_ J Worksheet 84 г — г — г — г — п г — г — ¬ I 75 I 17011651 180 | 170 | 1**6**0 | L \_\_ J L \_\_ J L \_\_ J L \_\_ J ∟ \_ 」 L \_\_ J Worksheet 93 г — г — г — г — г — п г — г — ¬ I 34 I I 46 I I 40 I 144 | 36 | 50 | 32 | L \_ J F - J L \_ \_ \_ L \_\_ J г — ¬ I 42 I I 38 I I 48 I L \_\_ J F \_\_ 7 L \_\_\_\_ L \_\_ J r \_\_ 7 \_\_\_ г — г — г — г — г — г — г — п 162 | 174 | 1 **68** 1 164 I I 76 I 1 **8**0 1 I 72 I 1**66** I I 78 I с \_\_ ј L \_\_ J L \_\_ J L \_\_ J ∟ \_ 」 L \_\_ J L \_\_ J ц \_\_ ј L \_ J Worksheet II5 г — г — ¬ г — ¬ 82 | 84 | 86 | 74 | 80 | I 78 I 172 | ∟ \_ 」 L \_ J - 7 L \_\_ J L \_\_ J ∟ \_ 」 I 76 I I 88 I 1 **9**0 1 L \_\_ J L \_\_ J L \_\_ J Worksheet 119 г — г — г — г — п г — г — г — г — ¬ - -I 72 I ı 74 ı 1641 1861 I 78 I 1 **8**0 1 1**66** I 1 62 T 1 <u>68</u> 1 L \_\_ J L \_\_ J L \_\_ J ∟ \_ 」 ∟ \_ 」 L \_\_ J ∟ \_ 」 ∟ \_ 」 L \_\_ J г — п г — г — г — г — п г — г — п 1 **96** 1 I 82 I 1941 1 **86** 1 1 **9**0 1 I 84 I 1001 L \_\_ J L \_\_ J с \_\_ ј L \_\_ J с \_\_ ј с \_\_ ј L \_\_ J г — г — г — ¬ 1921 I 98 I I 88 I L \_\_ J L \_ J L \_\_ J

\_\_\_\_