Number Knowledge

Series 1

Book 1

(Suggested use at Year 1 / 2)

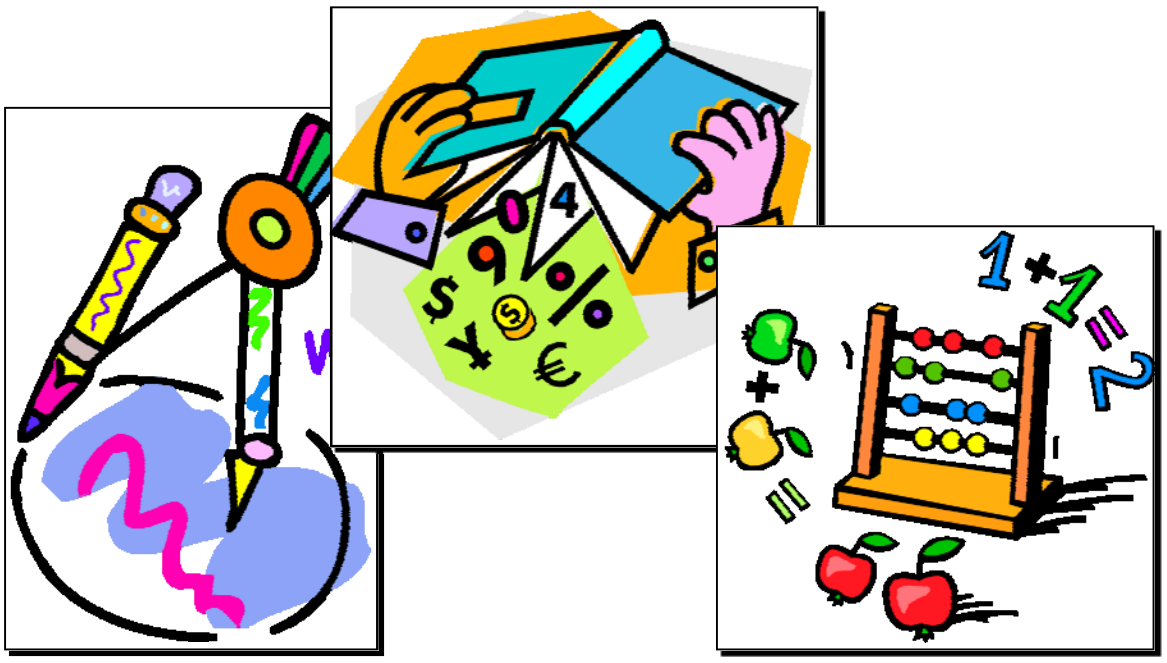
40 BLACKLINE PHOTOCOPY MASTERS

This is ONE of a series of **8** resources that have been compiled using the **Achievement Objectives** from the appropriate level of the **NUMBER** and **ALGEBRA STRANDS** as stated in the document ....

Mathematics in the New Zealand Curriculum

and information from the various resources of the ...

Numeracy Professional Development Project



Author: A. W. Stark

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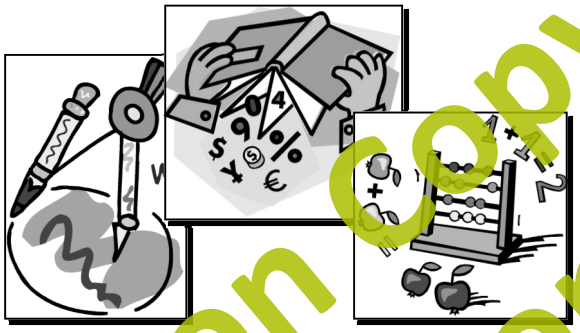

A BLACKLINE PHOTOCOPY MASTER RESOURCE

Author: A. W. Stark

NK1

Author: A. W. Stark

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Note from the author:

About this resource ...

Number Knowledge Series 1 - Book 1

(Code: NK1)

is one of a series of 8 resources written to support the **NUMERACY PROJECT** currently being implemented within many New Zealand schools. Within each resource in this series, the **NUMBER KNOWLEDGE FACTS** are systematically and methodically introduced, providing students with the 'building blocks' required to progress through the various **NUMBER STRATEGY STAGES**.

These resources have been compiled using the **Achievement Objectives** from the appropriate **NUMBER** and **ALGEBRA STRANDS** as stated in the document ....

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... involving the **Strategy Stages** as listed below.

	Strategy Stages
1	One-to-one Counting
2	Counting from One on Materials
3	Counting from One by Imaging
4	Advanced Counting (Counting On)
5	Early Additive Part-Whole
6	Advanced Additive Part-Whole
7	Advanced Multiplicative Part-Whole
8	Advanced Proportional Part-Whole

How to use these resources:

There are 8 resources in this series.

The table opposite suggests the Year Group each book can be used at, but this is only a suggestion.

There is NO obvious reference to Year Group or Level noted on each activity sheet, therefore the appropriate book can be selected for your students, regardless of their Year Group.

Book	Resource Code	Suggested Year Group	Curriculum Level
1	NK1	1	1
2	NK2	2	1
3	NK3	3	2
4	NK4	4	2
5	NK5	5	3
6	NK6	6	3
7	NK7	7	4
8	NK8	8	4

This series of resources are supplied as **BLACKLINE PHOTOCOPY MASTERS.**

Available as HOMEWORK WRITE-ON WORKBOOKS

These resources can also be purchased as Write-On Student Workbooks, which are sold to pupils as HOMEWORK / REVISION resources and cannot be photocopied.

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How to use this resource - Book 1

The purpose of this resource is for students to become familiar with **saying** and **writing** the numerals from 1 to 10 and **counting** up to 10.

There are 40 activity sheets in this resource. At this level, pupils will require adult input to be able to complete each activity. The worksheets are divided into groups of 10 and gradually get more difficult. Below is a summary of what is contained within each group of worksheets.

If the worksheet is going to be sent home, copy the appropriate section below and send this home with the first worksheet so that parents / care-givers know what to do.

Worksheets 1 to 10

Activity on Worksheet	Teaching Ideas	Add your ideas in this column
Saying the numbers 1 to 5	• Say the numbers 1 to 5 in order and ask pupils to repeat. • Point randomly at each number and ask pupils to say that number. • Say a number and ask pupils to point to that number.	
Writing the numbers from 1 to 5	• Ask pupils to practise writing the numbers (numerals) on each worksheet.	
Counting 1 to 5 pictures of animals or objects	• Ask pupils to count the number of each different picture and write their answers in the boxes provided. • Ask pupils to hold up the same number of fingers as there are pictures.	
Writing the **missing** numbers in a sequence from 1 to 5	• Cover up the numbers at the top of the page. • Ask pupils to write in the missing numbers in the spaces provided.	

Worksheets 11 to 20

Activity on Worksheet	Teaching Ideas	Add your ideas in this column
Saying the numbers 1 to 10	• Say the numbers 1 to 10 in order and ask pupils to repeat. • Point randomly at each number and ask pupils to say that number. • Say number and ask pupils to point to that number.	
Writing the numbers from 1 to 10	• Ask pupils to practise writing the numbers (numerals) on each worksheet.	
Counting 1 to 10 pictures of animals or objects	• Ask pupils to count the number of each different picture and write their answers in the boxes provided. • Ask pupils to hold up the same number of fingers as there are pictures.	
Writing the **missing** numbers in a sequence from 1 to 10	• Cover up the numbers at the top of the page. • Ask pupils to write in the missing numbers in the spaces provided.	

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Worksheets 21 to 30		
Activity on Worksheet	**Teaching Ideas**	**Add your ideas in this column**
Writing the **missing** numbers in a sequence from 1 to 10	• Ask pupils to write in the missing numbers as they count from 1 to 10 or count from 10 to 1.	
Writing the numbers 1 to 10	• Ask pupils to practice writing the numbers (numeral) given on each worksheet.	
Writing the number that comes **after** or **before** a given number for the numbers 1 to 10.	• Cover up the numbers at the top of the page. • Ask pupils to write the number that comes either after or before the given number.	
Counting 1 to 10 pictures of animals or objects	• In this activity there are two different pictures in each box. Ask pupils to count and record the number of each picture. • Having written their answers, ask pupils to count ALL pictures. There are always 10 pictures, hence pupils get practice at counting up to 10 and are exposed to the combinations that add to 10. *Example: 4 dolls & 6 teddy bears.* • Ask pupils to hold up the same number of fingers as there are pictures.	
Colouring-in from 1 to 9 pictures of mathematical shapes	• From this activity, pupils learn the names of several mathematical shapes. • Say the name of the shape and ask pupils to repeat. • Point to one of the shapes and ask pupils what it is called. • Ask pupils to shade in the appropriate number of shapes. • Having shaded in the two different shapes, ask pupils to count the total number of shapes shaded. There are always 10 shaded shapes, hence pupils gain more practice at counting up to 10 and are exposed to the combinations that add to 10. *Example: 3 triangles & 7 circles.*	
Ordering numbers 1 to 10	• Cover up the numbers at the top of the page. • Ask pupils to order the 3 or 4 numbers given, in order from smallest to largest or largest to smallest.	

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Worksheets 31 to 40		
Activity on Worksheet	**Teaching Ideas**	**Add your ideas in this column**
Writing the **missing** numbers in a sequence from 1 to 10	• Ask pupils to write in the missing numbers as they count from 1 to 10 or count from 10 to 1.	
Writing the number that comes **after** or **before** a given number for the numbers 1 to 10.	• Cover up the numbers at the top of the page. • Ask pupils to write the number that comes either after or before the given number.	
Counting 1 to 10 pictures of animals or objects	• In this activity there are two different pictures in one box. Ask pupils to count and record the number of each picture. • Having written their answers, ask pupils to count ALL pictures. There are always 10 pictures, hence pupils get practice at counting up to 10 and are exposed to the combinations that add to 10. *Example: 4 dolls & 6 teddy bears.* • Ask pupils to hold up the same number of fingers as there are pictures.	
Colouring-in from 1 to 9 pictures of mathematical shapes	• From this activity, pupils learn the names of several mathematical shapes. • Say the name of the shape and ask pupils to repeat. • Point to one of the shapes and ask pupils what it is called. • Ask pupils to shade in the appropriate number of shapes. • Having shaded in the two different shapes, ask pupils to count the total number of shapes shaded. There are always 10 shaded shapes, hence pupils gain more practice at counting up to 10 and are exposed to the combinations that add to 10. *Example: 3 triangles & 7 circles.*	
Ordering numbers 1 to 10	• Cover up the numbers at the top of the page. • Ask pupils to order the 5 or 6 numbers given, in order from smallest to largest or largest to smallest.	

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Number Knowledge Worksheet

1

Bk1

Name: _____ Class: _____

Say these numbers.

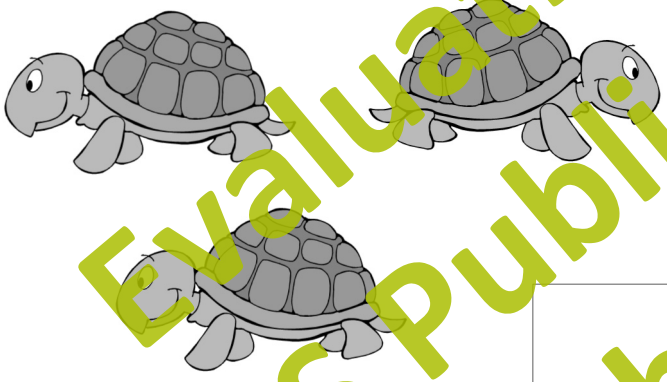
1	2	3	4	5

Practise **writing** each number.

1					

2					

Count the number of turtles.



Count the number of hats.

Count the number of apples.

Count the number of dogs.

Write in the missing numbers as you count from 1 to 5.

1		3		5

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Number Knowledge Worksheet

2

Bkl

Name: _____ Class: _____

Say these numbers.

1	2	3	4	5

Practise **writing** each number.

3					

4					

Count the number of teddy bears.

Count the number of whales.

Count the number of swans.

Count the number of bananas.

Write in the missing numbers as you count from 1 to 5.

1	2		4	

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Number Knowledge Worksheet

3

Bk1 Name: _____ Class: _____

Say these numbers.

1	2	3	4	5

Practise **writing** each number.

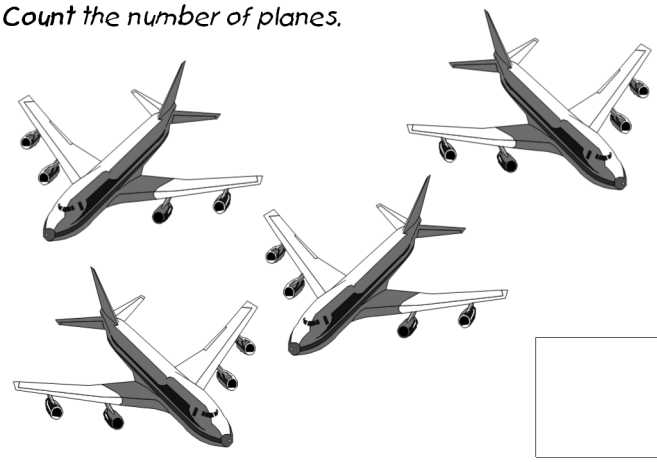
1					
5					

Count the number of blocks.

Count the number of pandas.

Count the number of cakes.

Count the number of planes.



Write in the missing numbers as you count from 1 to 5.

	2	3		5

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Number Knowledge Worksheet

4

Bkl

Name: _____ Class: _____

Say these numbers.

1	2	3	4	5

Practise **writing** each number.

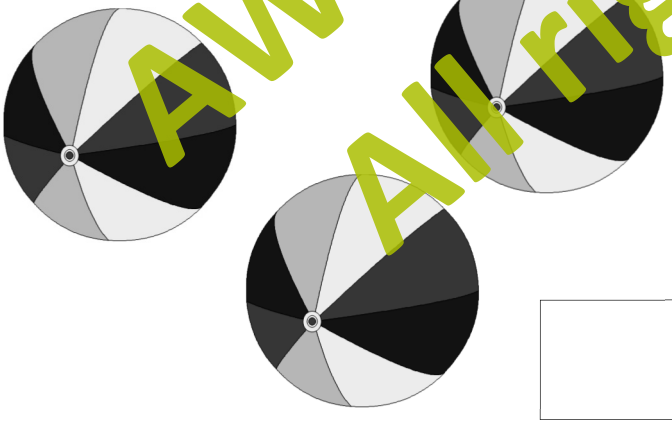
2					

4					

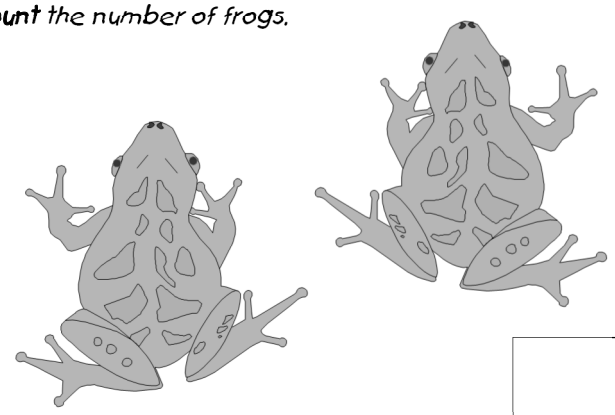
Count the number of buses.

Count the number of t-shirts.

Count the number of balls.



Count the number of frogs.



Write in the missing numbers as you count from 1 to 5.

1	2			5

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Number Knowledge Worksheet

5

Bk1

Name: _____ Class: _____

Say these numbers.

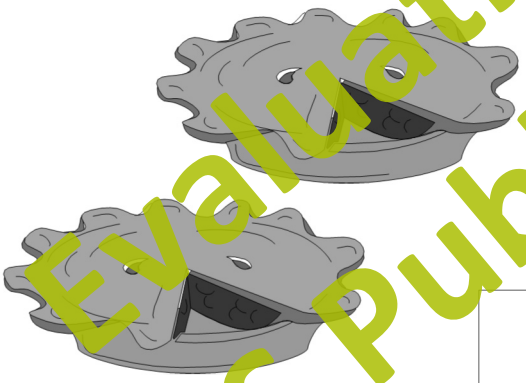
1	2	3	4	5

Practise **writing** each number.

3					

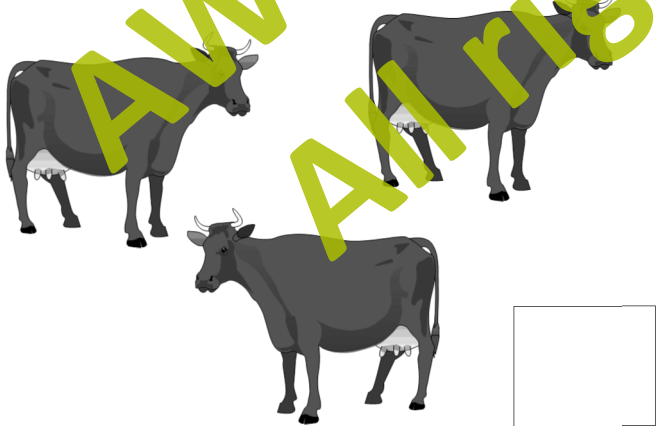
5					

Count the number of pies.

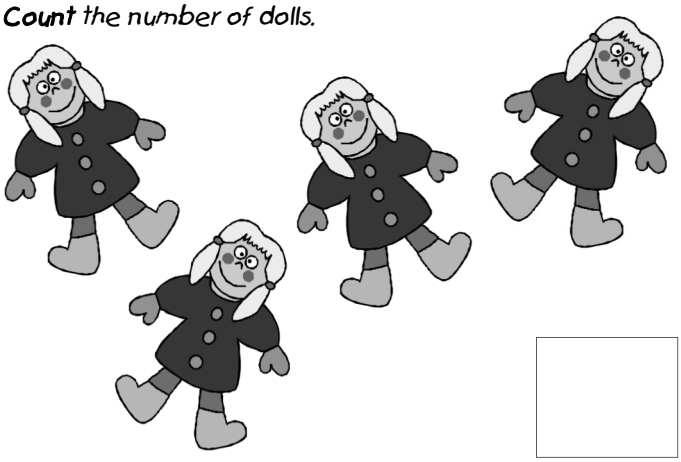


Count the number of spiders.

Count the number of cows.



Count the number of dolls.



Write in the missing numbers as you count from 1 to 5.

1		3	4	

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Number Knowledge Worksheet

6

Bkl

Name: _____ Class: _____

Say these numbers.

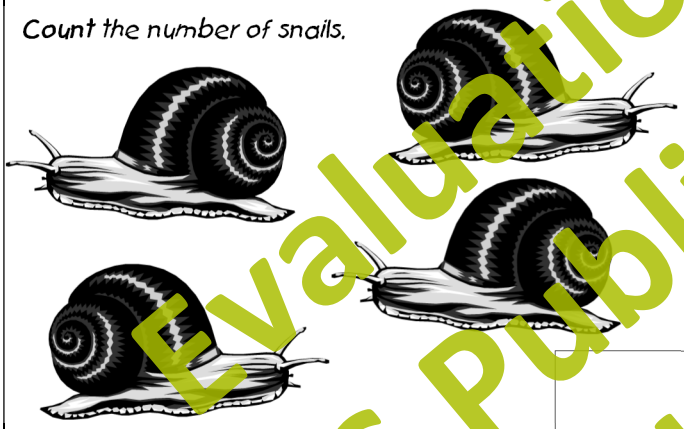
1	2	3	4	5

Practise **writing** each number.

1					

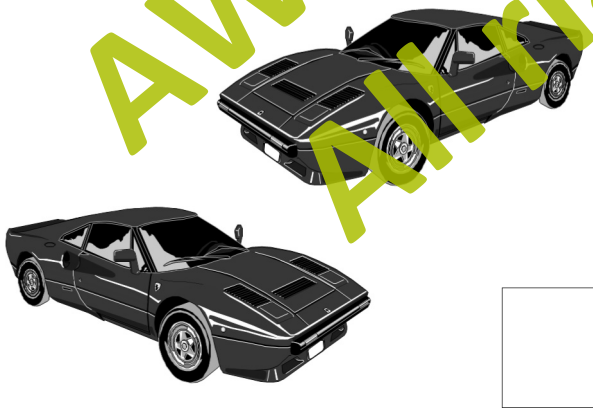
4					

Count the number of snails.

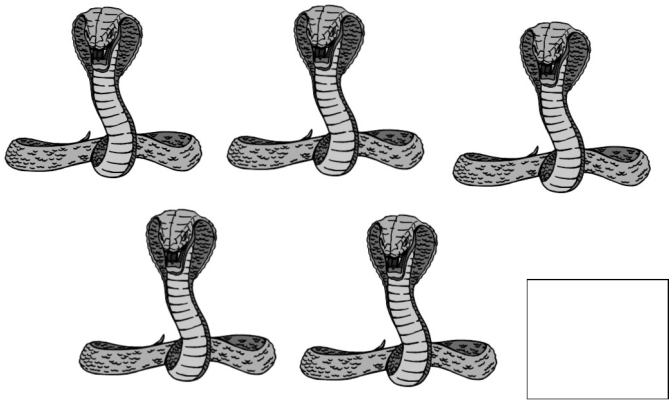


Count the number of snowmen.

Count the number of cars.



Count the number of snakes.



Write in the missing numbers as you count from 1 to 5.

	2		4	5

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Number Knowledge Worksheet

7

Bk1

Name: _____ Class: _____

Say these numbers.

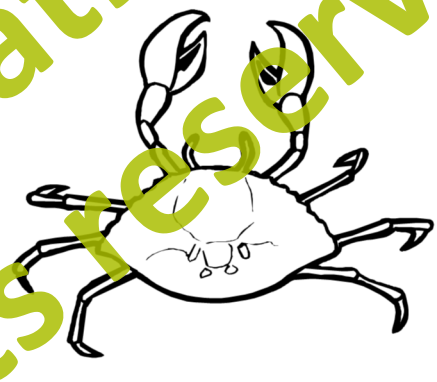
1	2	3	4	5

Practise **writing** each number.

3					
5					

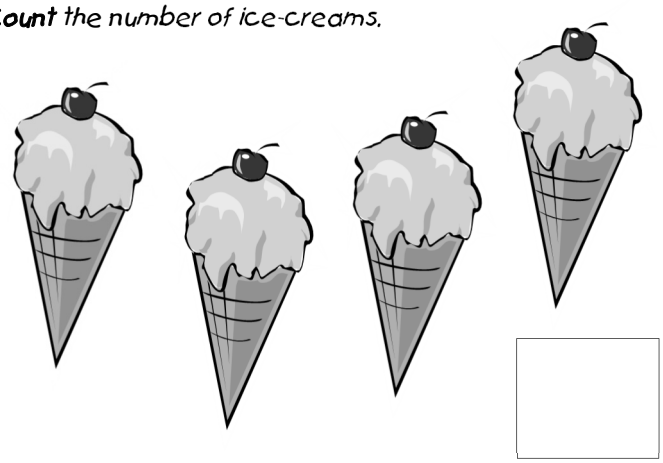
Count the number of yo-yos.

Count the number of crabs.



Count the number of owls.

Count the number of ice-creams.



Write in the missing numbers as you count from 1 to 5.

1		3	4	

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Number Knowledge Worksheet

8

Bkl

Name: _____ Class: _____

Say these numbers.

1	2	3	4	5

Practise **writing** each number.

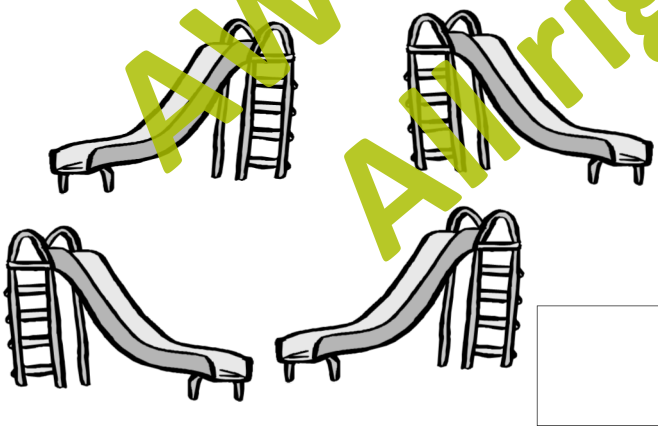
2					

5					

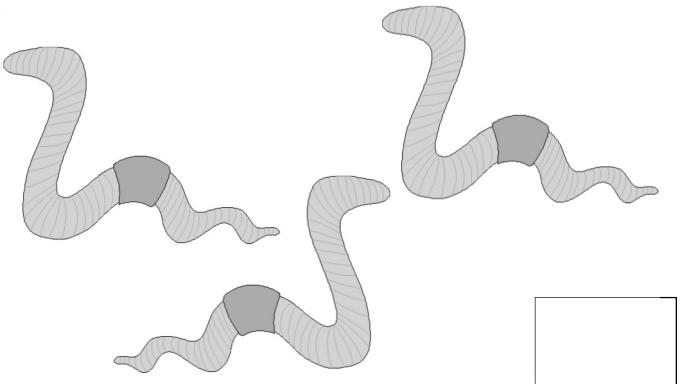
Count the number of flies.

Count the number of drums.

Count the number of slides.



Count the number of worms.



Write in the missing numbers as you count from 1 to 5.

1			4	

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Number Knowledge Worksheet

9

Bkl

Name: _____ Class: _____

Say these numbers.

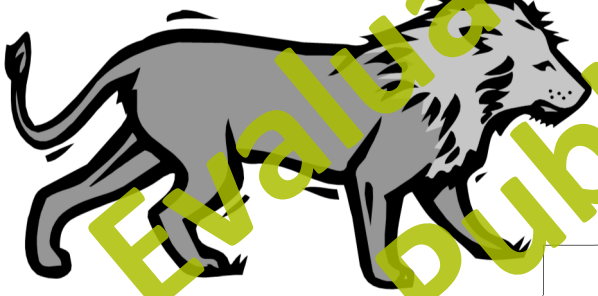
1	2	3	4	5

Practise **writing** each number.

1					

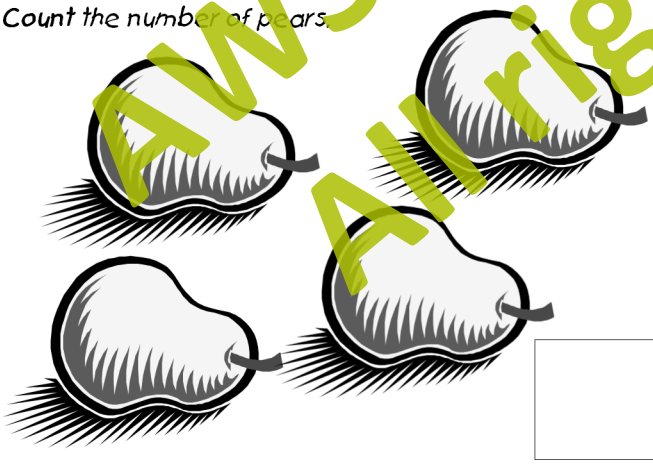
3					

Count the number of lions.

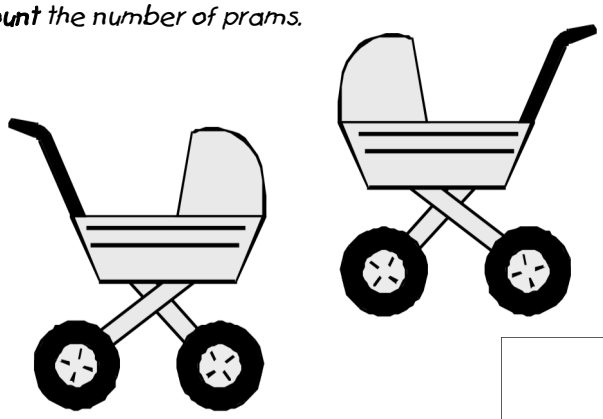


Count the number of flowers.

Count the number of pears.



Count the number of prams.



Write in the missing numbers as you count from 1 to 5.

	2	3		

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Number Knowledge Worksheet

10

Bkl

Name: _____ Class: _____

Say these numbers.

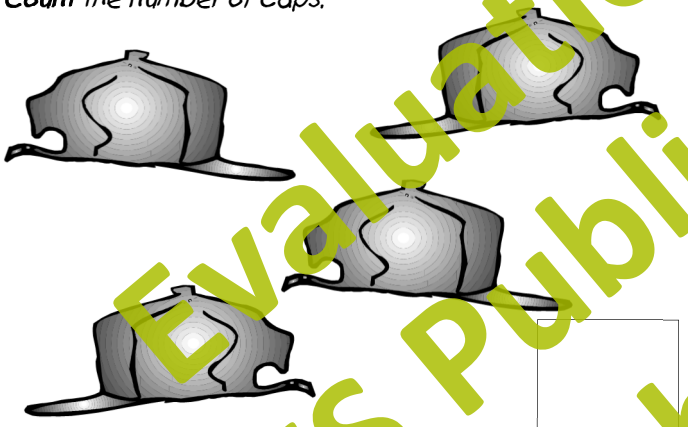
1	2	3	4	5

Practise **writing** each number.

2					

4					

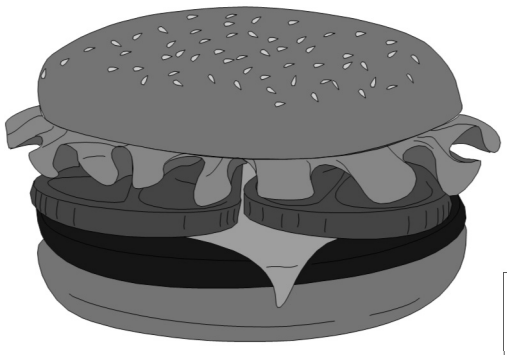
Count the number of caps.



Count the number of fish.

Count the number of roosters.

Count the number of hamburgers.



Write in the missing numbers as you count from 1 to 5.

1				5

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Number Knowledge Worksheet

11

Bkl

Name: _____ Class: _____

Say these numbers.

1	2	3	4	5	6	7	8	9	10

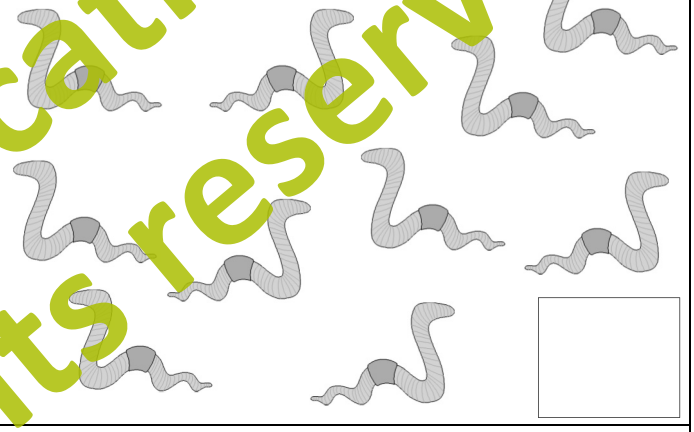
Practise **writing** each number.

3									

9									

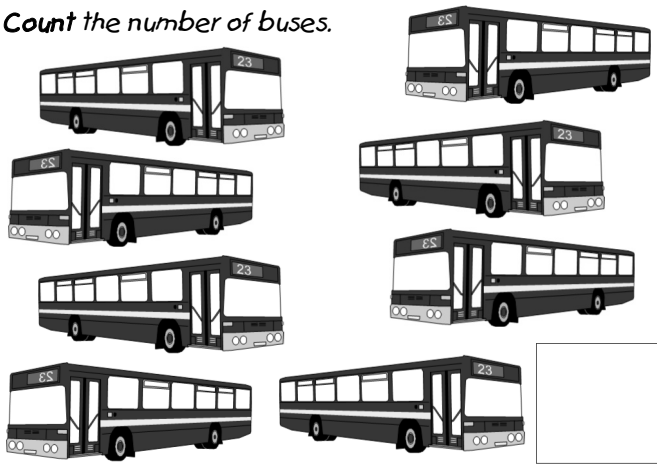
Count the number of cakes.

Count the number of worms.



Count the number of pies.

Count the number of buses.



Write in the missing numbers as you count from 1 to 10.

1		3	4		6	7		9	

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Number Knowledge Worksheet

12

Bkl

Name: _____ Class: _____

Say these numbers.

1	2	3	4	5	6	7	8	9	10

Practise **writing** each number.

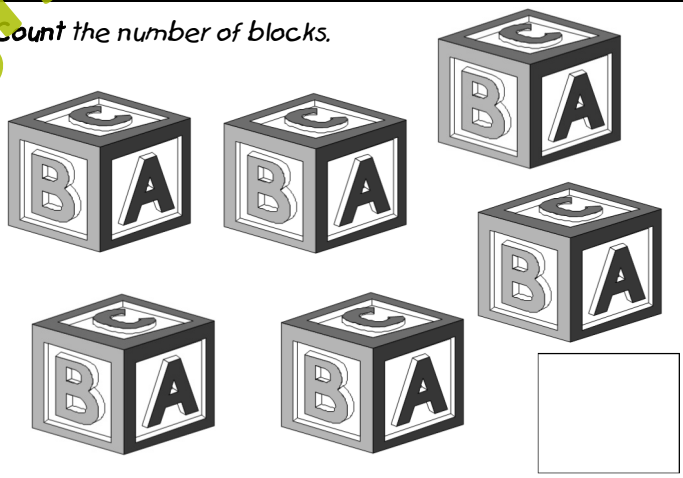
2									
8									

Count the number of ice-creams.

Count the number of rats.

Count the number of whales.

Count the number of blocks.



Write in the missing numbers as you count from 1 to 10.

1		3		5	6		8		10

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Number Knowledge Worksheet

13

Bk1

Name: _____ Class: _____

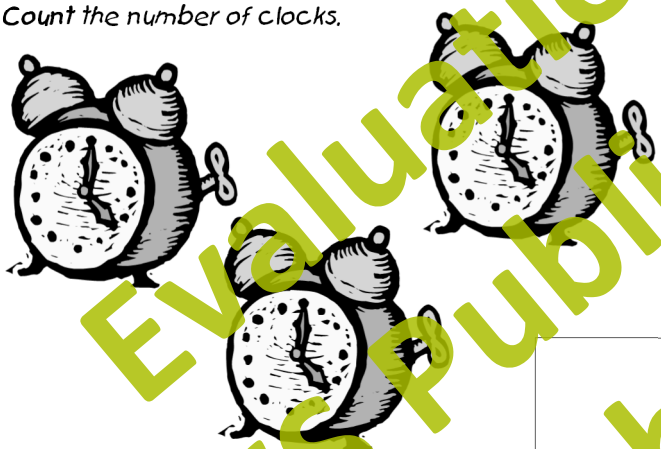
Say these numbers.

1	2	3	4	5	6	7	8	9	10

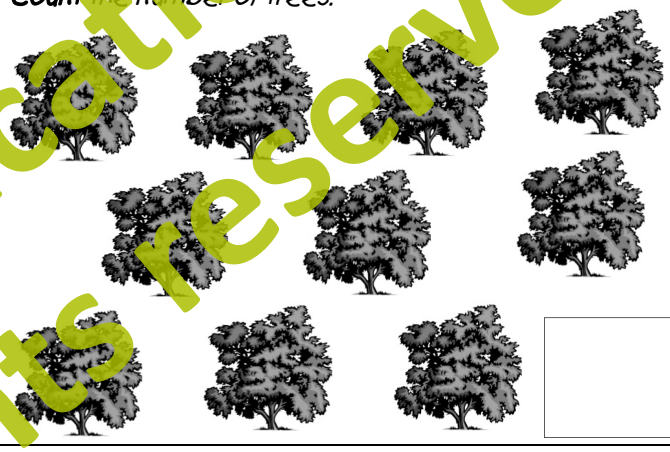
Practise **writing** each number.

4									
10									

Count the number of clocks.

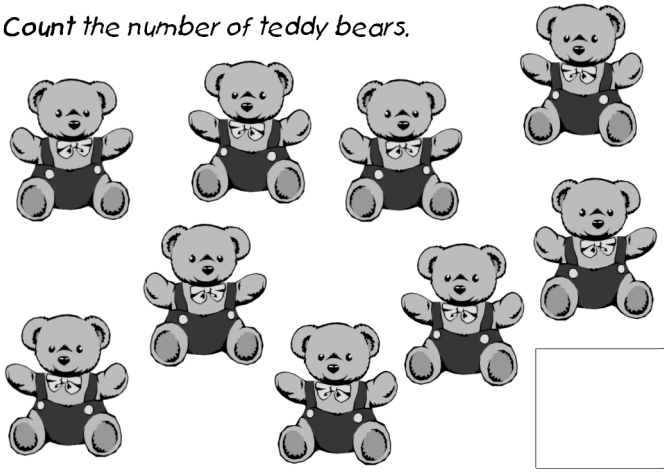


Count the number of trees.



Count the number of birds.

Count the number of teddy bears.



Write in the missing numbers as you count from 1 to 10.

	2		4	5		7		9	10

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Number Knowledge Worksheet

14

Bkl

Name: _____ Class: _____

Say these numbers.

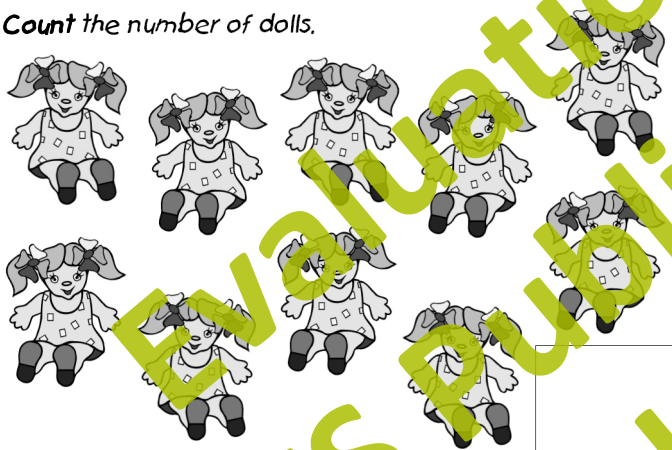
1	2	3	4	5	6	7	8	9	10

Practise **writing** each number.

5									

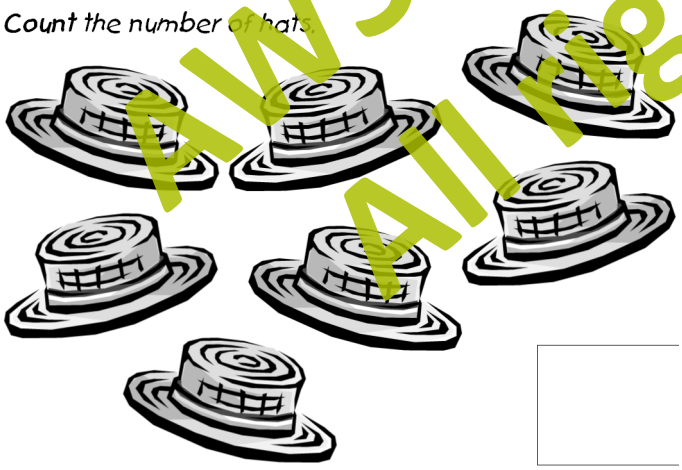
7									

Count the number of dolls.

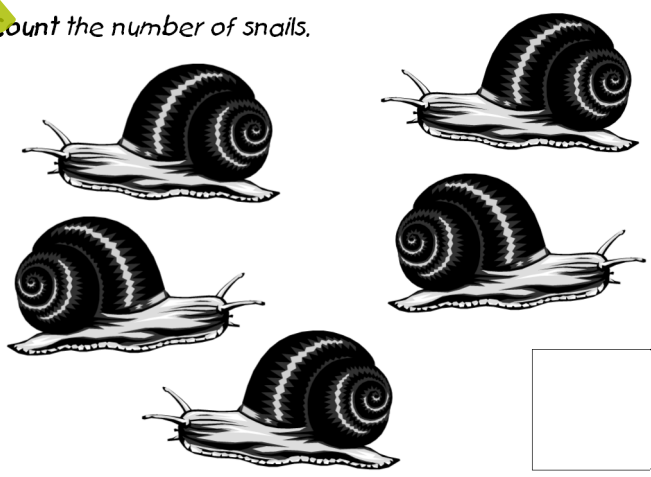


Count the number of ladybirds.

Count the number of hats.



Count the number of snails.



Write in the missing numbers as you count from 1 to 10.

1	2		4		6	7			10

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Number Knowledge Worksheet

15

Bkl

Name: _____ Class: _____

Say these numbers.

1	2	3	4	5	6	7	8	9	10

Practise **writing** each number.

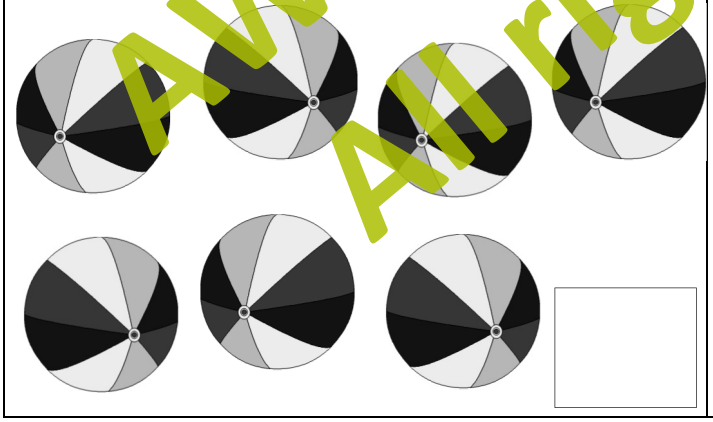
6									

9									

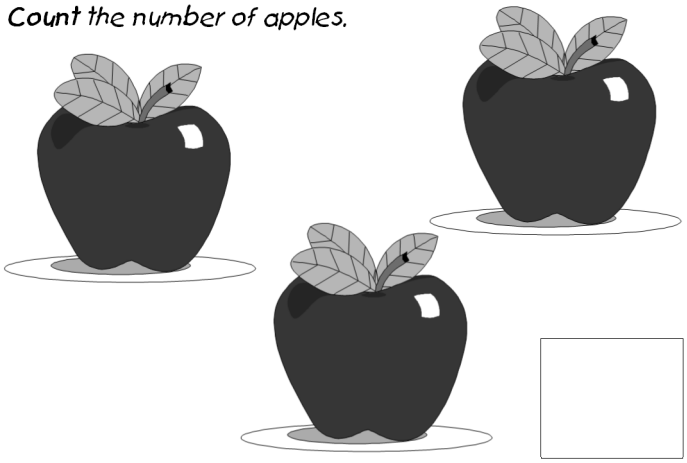
Count the number of snowmen.

Count the number of pandas.

Count the number of balls.



Count the number of apples.



Write in the missing numbers as you count from 1 to 10.

1	2			5	6		8		10

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Number Knowledge Worksheet

16

Bkl

Name: _____ Class: _____

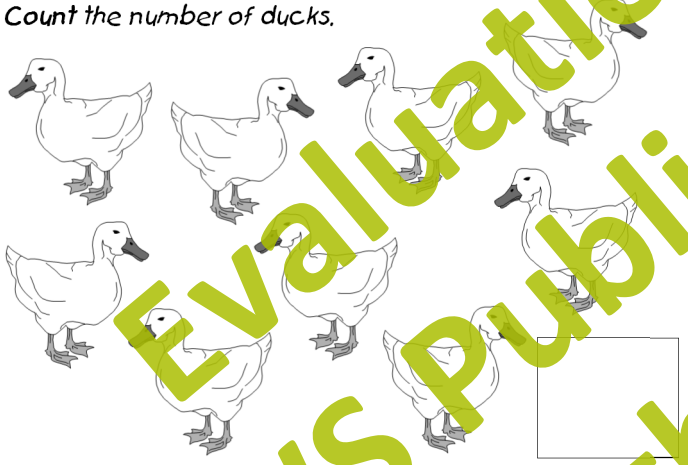
Say these numbers.

1	2	3	4	5	6	7	8	9	10

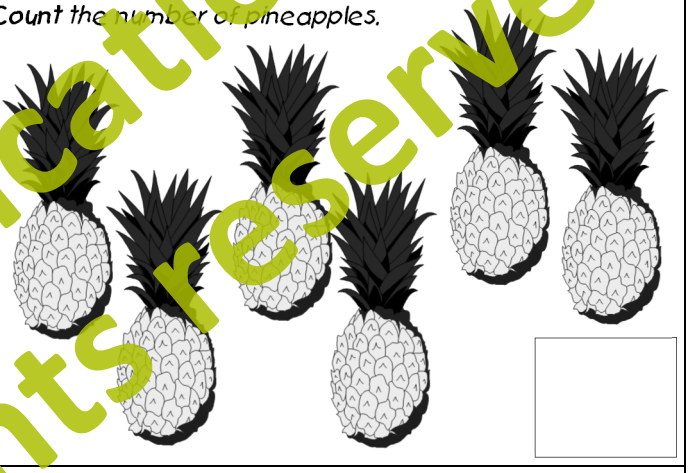
Practise **writing** each number.

7									
10									

Count the number of ducks.

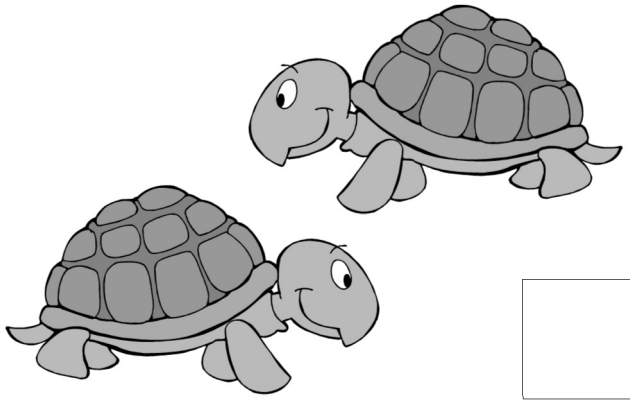


Count the number of pineapples.



Count the number of starfish.

Count the number of turtles.



Write in the missing numbers as you count from 1 to 10.

	2	3	4			7		9	

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Number Knowledge Worksheet

17

Bk1

Name: _____ Class: _____

Say these numbers.

1	2	3	4	5	6	7	8	9	10

Practise **writing** each number.

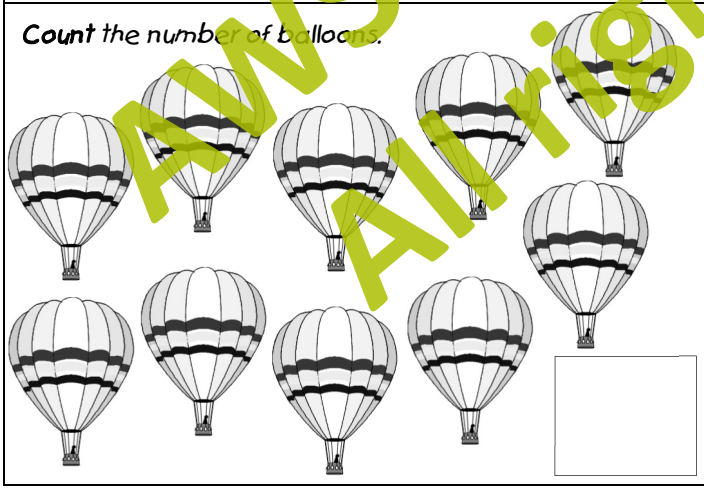
5									

8									

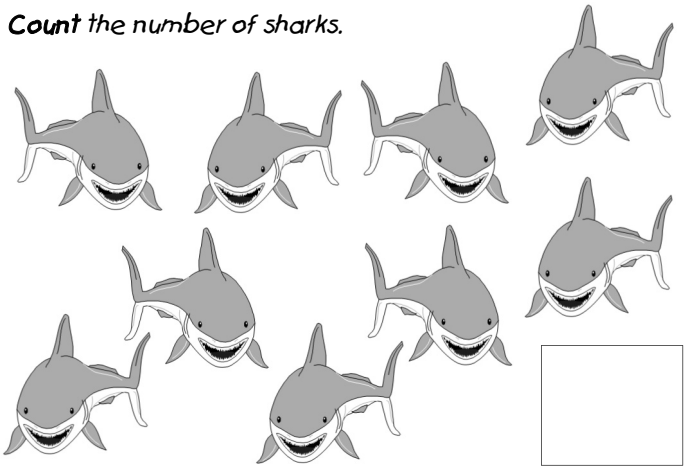
Count the number of pears.

Count the number of flowers.

Count the number of balloons.



Count the number of sharks.



Write in the missing numbers as you count from 1 to 10.

1		3		5		7		9	

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Number Knowledge Worksheet

18

Bkl

Name: _____ Class: _____

Say these numbers.

1	2	3	4	5	6	7	8	9	10

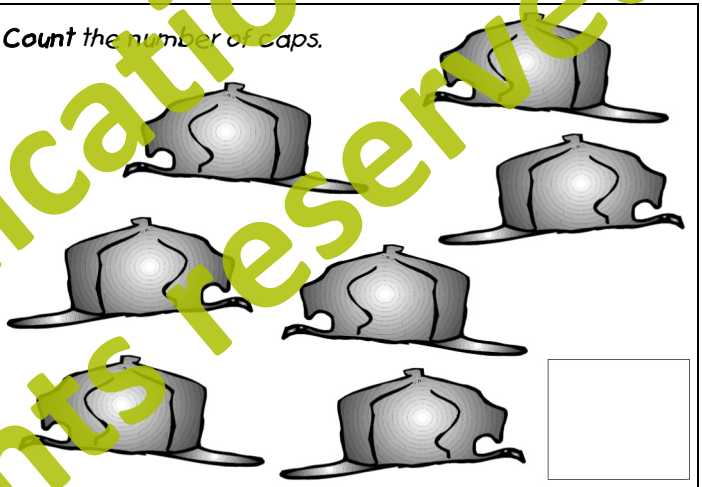
Practise **writing** each number.

6									

9									

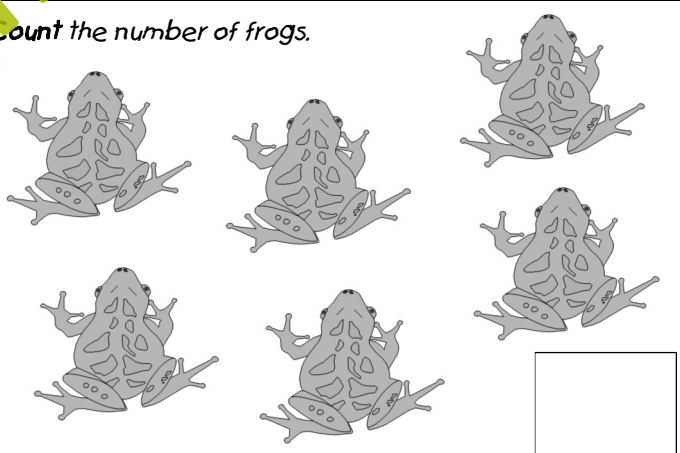
Count the number of hamburgers.

Count the number of caps.



Count the number of dolls.

Count the number of frogs.



Write in the missing numbers as you count from 1 to 10.

	2		4		6		8	9	

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Number Knowledge Worksheet

19

Bkl

Name: _____ Class: _____

Say these numbers.

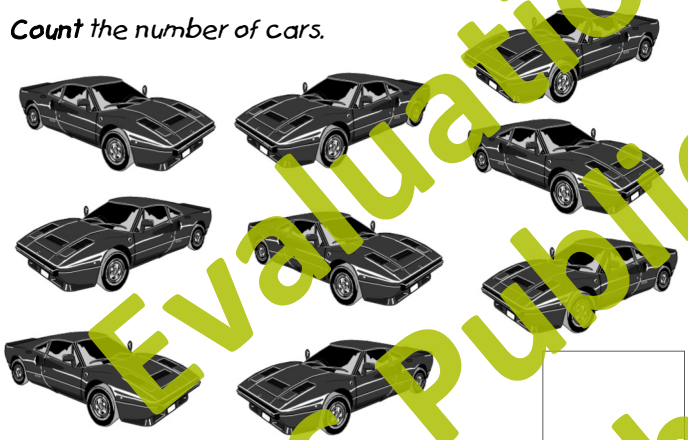
1	2	3	4	5	6	7	8	9	10

Practise **writing** each number.

7									

10									

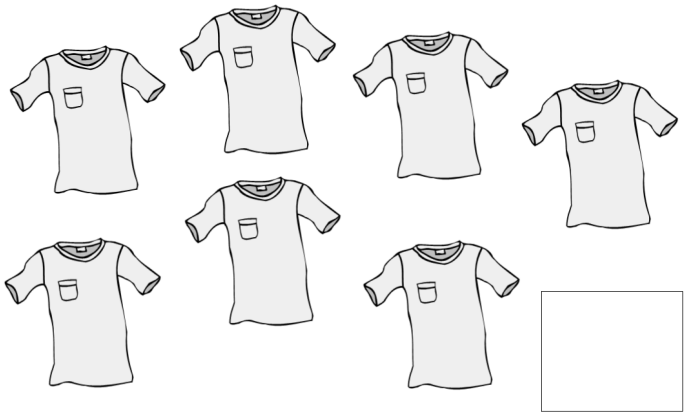
Count the number of cars.



Count the number of tigers.

Count the number of swans.

Count the number of t-shirts.



Write in the missing numbers as you count from 1 to 10.

	2			5		7	8		10

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Number Knowledge Worksheet

20

Bkl

Name: _____ Class: _____

Say these numbers.

1	2	3	4	5	6	7	8	9	10

Practise **writing** each number.

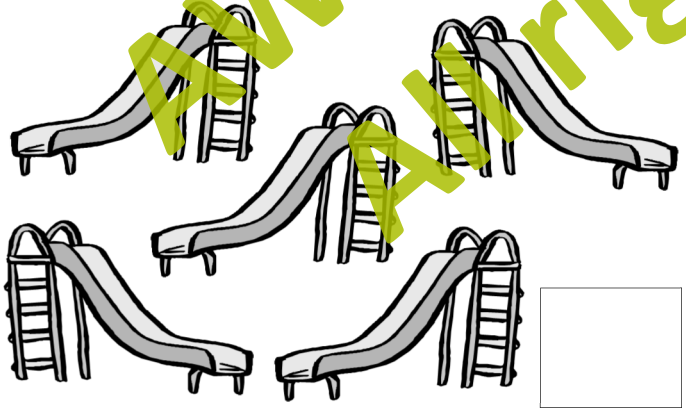
5									

9									

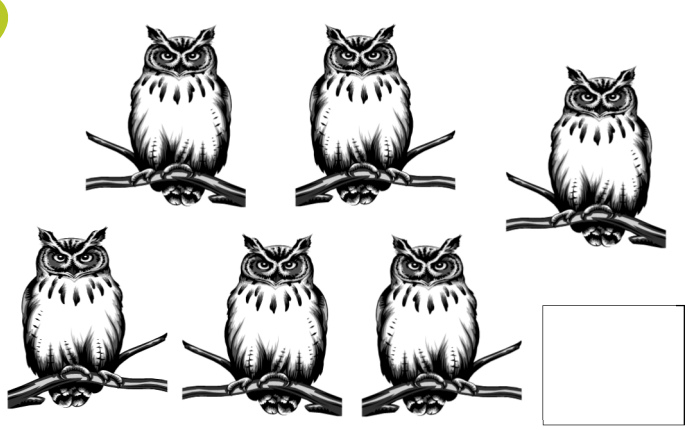
Count the number of spiders.

Count the number of planes.

Count the number of slides.



Count the number of owls.



Write in the missing numbers as you count from 1 to 10.

1	2			5	6		8		

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Number Knowledge Worksheet

21

Bkl

Name: _____ Class: _____

Write in the missing numbers as you count from 1 to 10.

1			4	5				9	10

Practise **writing** each number.

1				
9				

Write the number that comes **after** ...

3		6	
9		7	
2		8	

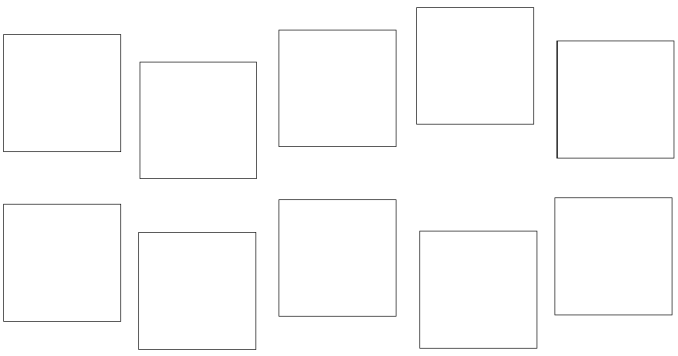
Count the number of teddy bears and dolls.

teddy bears

dolls

Colour in 1 ▲ (triangle)

Colour in 9 ■ (squares)



Write these numbers in **order** from largest to smallest.

4	2	7			

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Number Knowledge Worksheet

22

Bkl

Name: _____ Class: _____

Write in the missing numbers as you count **backwards** from 10 to 1.

		8	7	6				2	1

Practise **writing** each number.

5				

8				

Write the number that comes **before** ...

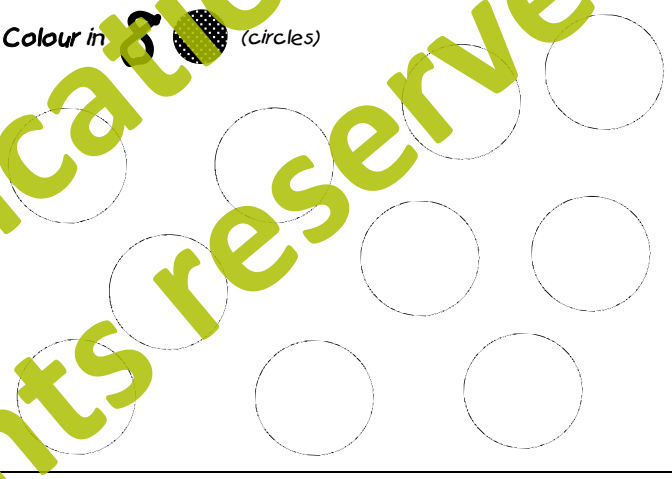
	4		10
	8		2
	5		7

Count the number of fish and starfish.

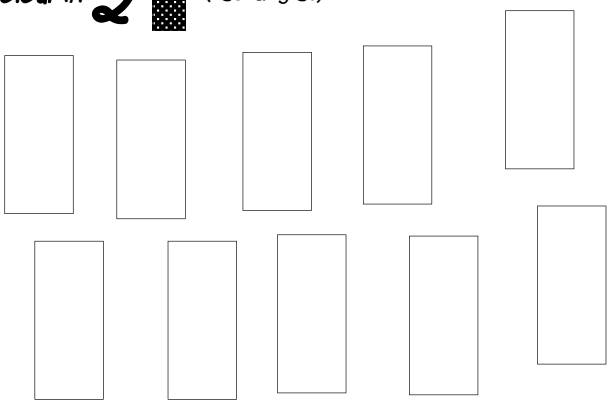
fish

starfish

Colour in 3 (circles)



Colour in 2 (rectangles)



Write these numbers in **order** from smallest to largest.

6	9	5		

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Number Knowledge Worksheet

23

Bkl

Name: _____ Class: _____

Write in the missing numbers as you count from 1 to 10.

		3	4				8	9	10

Practise **writing** each number.

3				

10				

Write the number that comes **after** ...

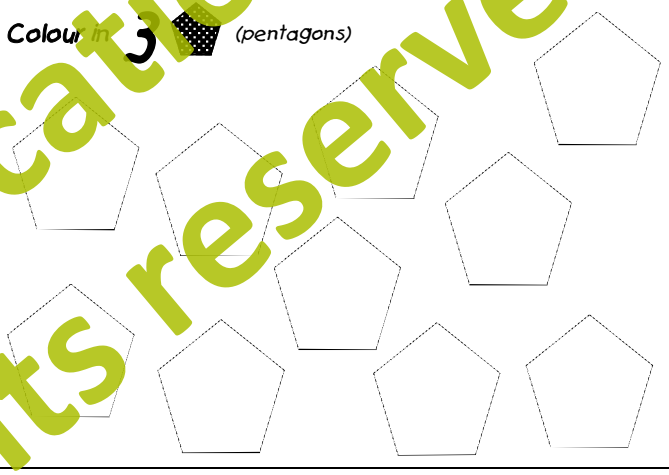
4		9	
1		7	
8		5	

Count the number of balls and blocks.

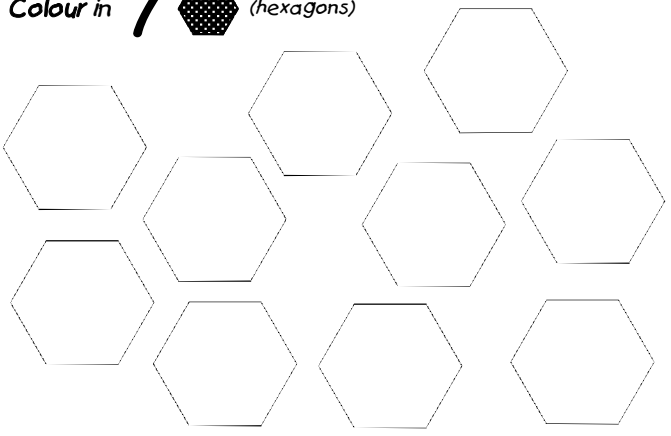
blocks

balls

Colour in 3 (pentagons)



Colour in 7 (hexagons)



Write these numbers in **order** from largest to smallest.

10	1	3			

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Number Knowledge Worksheet

24

Bkl

Name: _____ Class: _____

Write in the missing numbers as you count **backwards** from 10 to 1.

10			7	6	5				1

Practise **writing** each number.

4				

6				

Write the number that comes **before** ...

	6		9		
	7		2		
	3		5		

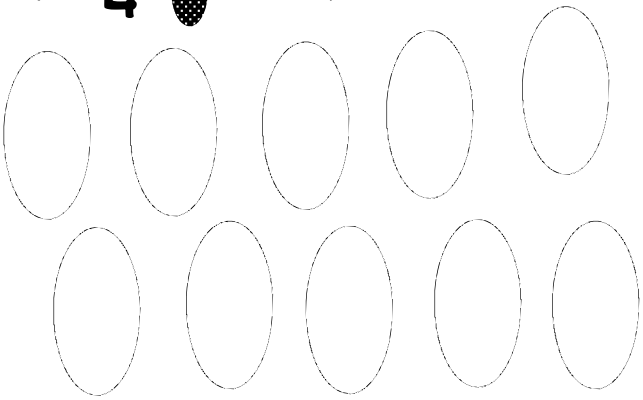
Count the number of ducks and frogs.

ducks

frogs

Colour in 6 (diamonds or rhombus)

Colour in 4 (ovals or ellipses)



Write these numbers in **order** from smallest to largest.

5	8	3			

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Number Knowledge Worksheet

25

Bkl

Name: _____ Class: _____

Write in the missing numbers as you count from 1 to 10.

1	2	3			6	7			

Practise **writing** each number.

2				
7				

Write the number that comes **after** ...

2		8	
6		1	
3		7	

Count the number of hats and clocks.

hats

clocks

Colour in 5 (parallelograms)

Colour in 5 (octagons)

Write these numbers in **order** from largest to smallest.

7	9	4			

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Number Knowledge Worksheet

26

Bkl

Name: _____ Class: _____

Write in the missing numbers as you count **backwards** from 10 to 1.

10	9	8				4	3		

Practise **writing** each number.

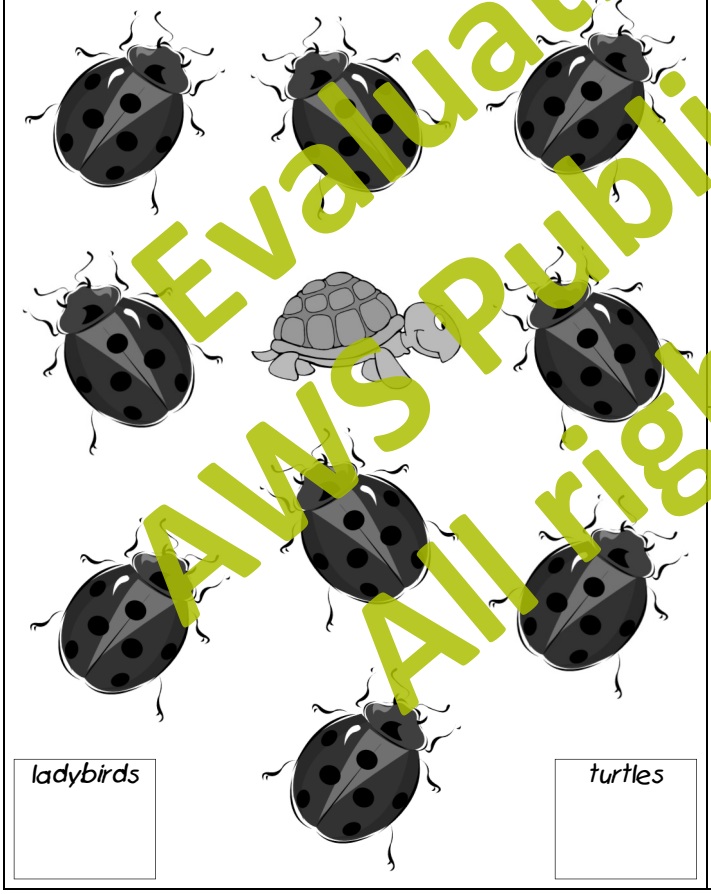
5				

9				

Write the number that comes **before** ...

	10			3	
	9			6	
	4			8	

Count the number of turtles and ladybirds.



ladybirds

turtles

Colour in 2 (circles)

Colour in 8 (rectangles)

Write these numbers in **order** from smallest to largest.

2	10	6	1				

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Number Knowledge Worksheet

27

Bk1

Name: _____ Class: _____

Write in the missing numbers as you count from 1 to 10.

1	2				6	7			10

Practise **writing** each number.

2				
10				

Write the number that comes **after** ...

6		9	
3		1	
5		7	

Count the number of owls and whales.

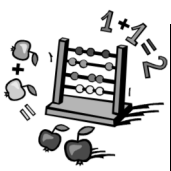
whales

owls

Colour in 1 (triangles)

Colour in 3 (hexagons)

Write these numbers in **order** from largest to smallest.



4	10	8	6				

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Number Knowledge Worksheet

28

Bkl

Name: _____ Class: _____

Write in the missing numbers as you count **backwards** from 10 to 1.

		8	7				3	2	

Practise **writing** each number.

1				

8				

Write the number that comes **before** ...

	10		5	
	2		7	
	8		9	

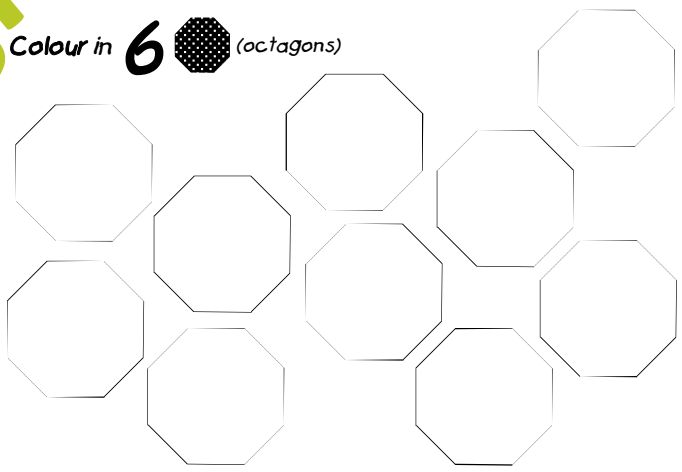
Count the number of sharks and tigers.

sharks

tigers

Colour in 1 (diamonds or rhombus)

Colour in 6 (octagons)



Write these numbers in **order** from smallest to largest.

3	9	1	7				

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Number Knowledge Worksheet

29

Bk1

Name: _____ Class: _____

Write in the missing numbers as you count from 1 to 10.

			4	5				9	

Practise **writing** each number.

4				
7				

Write the number that comes **after** ...

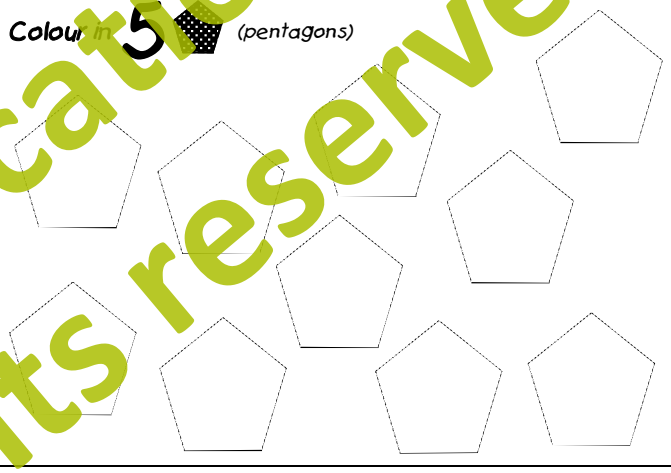
1		5	
7		2	
3		9	

Count the number of cars and planes.

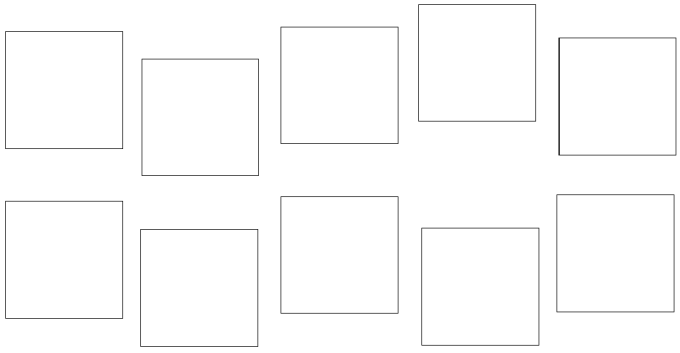
cars

planes

Colour in 5 ■ (pentagons)



Colour in 5 ■ (squares)



Write these numbers in **order** from largest to smallest.

5	2	8	7				

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5, 6

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Number Knowledge Worksheet

30

Bkl

Name: _____ Class: _____

Write in the missing numbers as you count **backwards** from 10 to 1.

			7		5				1

Practise **writing** each number.

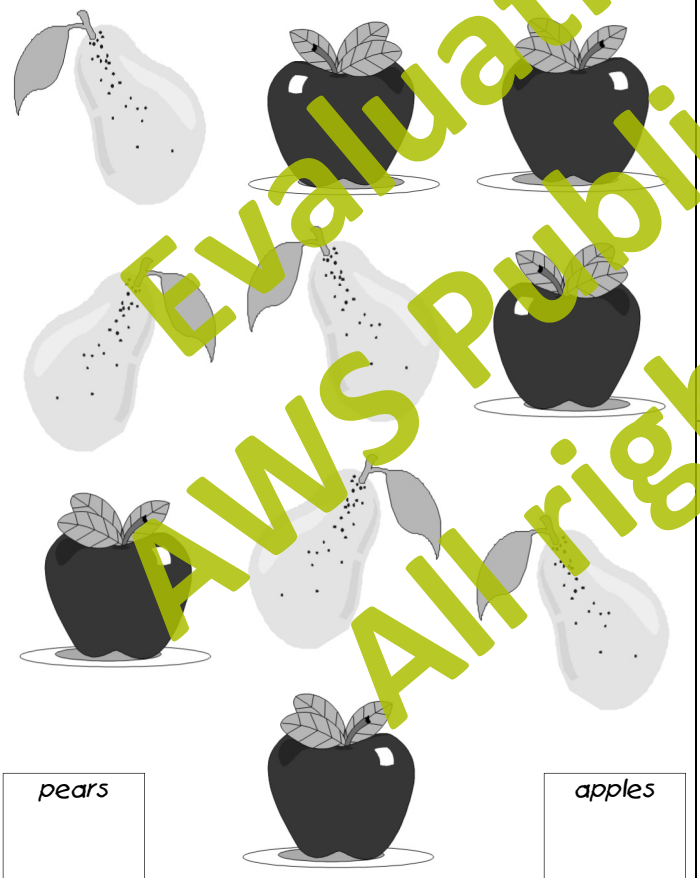
3				

6				

Write the number that comes **before** ...

	1		9
	10		3
	4		8

Count the number of pears and apples.

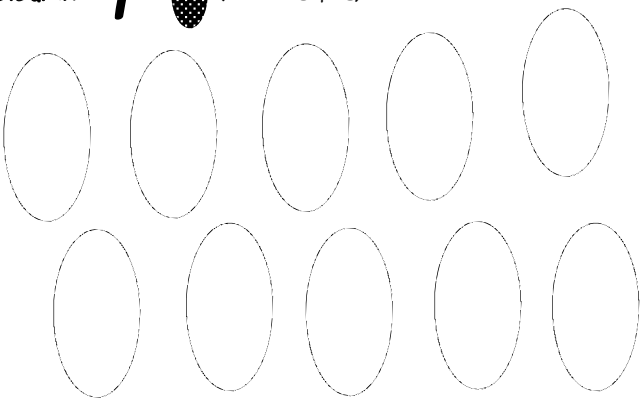


pears

apples

Colour in 9 (parallelograms)

Colour in 1 (oval or ellipse)



Write these numbers in **order** from smallest to largest.

4	10	6	3				

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Number Knowledge Worksheet

31

Bk1

Name: _____ Class: _____

Write in the missing numbers as you count from 1 to 10.

	2				6				10

Write the number that comes **after** ...

1		7	
8		2	
3		9	

Write the number that comes **before** ...

	6		8
	7		10
			9

Count the number of hot air balloons and planes.

hot air balloons

planes

Colour in 5 (octagons)

Colour in 7 (diamonds or rhombus)

Write these numbers in **order** from largest to smallest.

4	10	8	1	6					

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Number Knowledge Worksheet

32

Bkl

Name: _____ Class: _____

Write in the missing numbers as you count **backwards** from 10 to 1.

		8				4			1

Write the number that comes **after** ...

4		1	
2		5	
6		8	

Write the number that comes **before** ...

	2		7
	9		3
	5		4

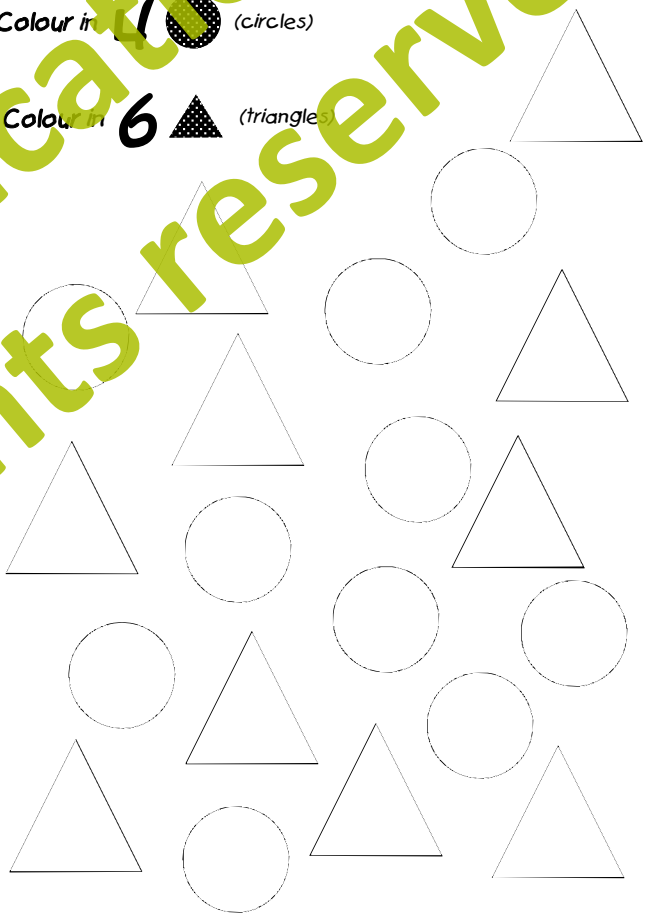
Count the number of ice creams and pies.

ice creams

pies

Colour in 10 (circles)

Colour in 6 (triangles)



Write these numbers in **order** from smallest to largest.

5	9	2	7	3					

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Number Knowledge Worksheet

33

Bk1

Name: _____ Class: _____

Write in the missing numbers as you count from 1 to 10.

		3		5				9	

Write the number that comes **after** ...

5		4	
6		3	
1		7	

Write the number that comes **before** ...

	2		5
	9		10
	4		3

Count the number of bananas and oranges.

bananas

oranges

Colour in 8 (squares)

Colour in 2 (pentagons)

Write these numbers in **order** from largest to smallest.

3	8	10	6	4					

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Number Knowledge Worksheet

34

Bkl

Name: _____ Class: _____

Write in the missing numbers as you count **backwards** from 10 to 1.

10			7			4			

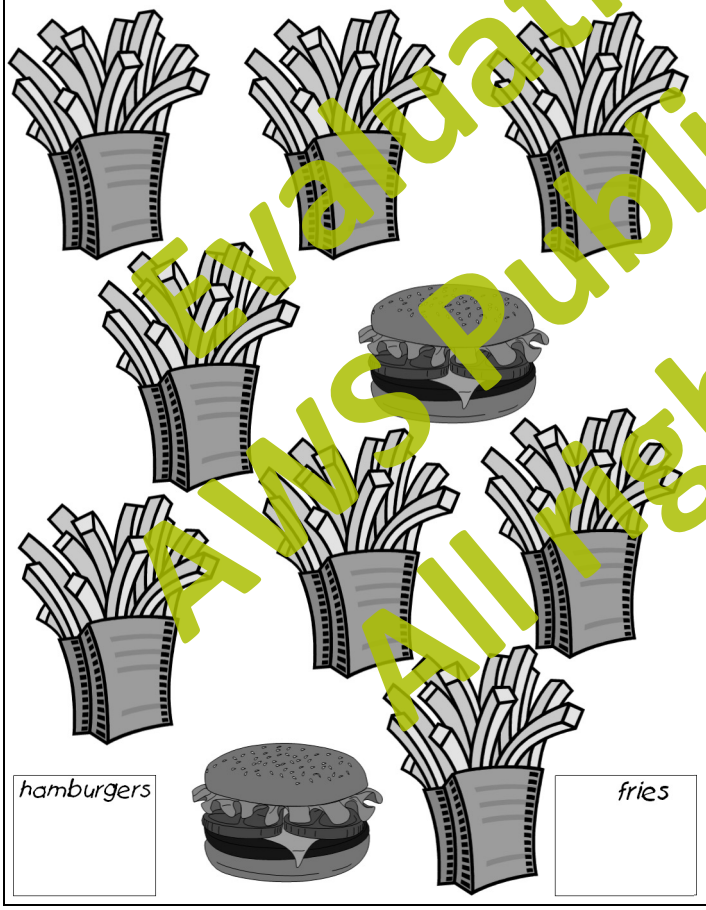
Write the number that comes **after** ...

9		5	
1		4	
6		2	

Write the number that comes **before** ...

	6		8
	10		3
	2		7

Count the number of hamburgers and fries.



hamburgers

fries

Colour in 1 (hexagon)

Colour in 9 (rectangles)

Write these numbers in **order** from smallest to largest.

9	5	1	7	2					

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Number Knowledge Worksheet

35

Bk1

Name: _____ Class: _____

Write in the missing numbers as you count from 1 to 10.

	2			5			8		

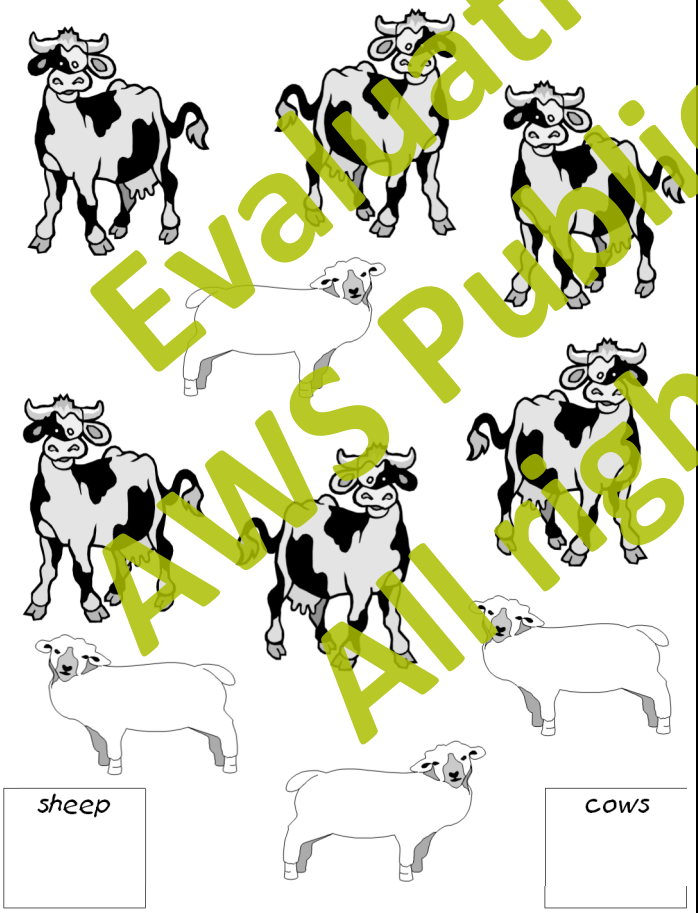
Write the number that comes **after** ...

7		3	
4		2	
5		8	

Write the number that comes **before** ...

	5		10
	3		4
	8		5

Count the number of cows and sheep.



sheep

cows

Colour in 5 (parallelograms)

Colour in 5 (ovals or ellipses)

Write these numbers in **order** from largest to smallest.

7	3	9	2	6					

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Number Knowledge Worksheet

36

Bkl

Name: _____ Class: _____

Write in the missing numbers as you count **backwards** from 10 to 1.

			7				3		1

Write the number that comes **after** ...

7		3	
9		1	
5		6	

Write the number that comes **before** ...

	5		9
	2		4
	8		7

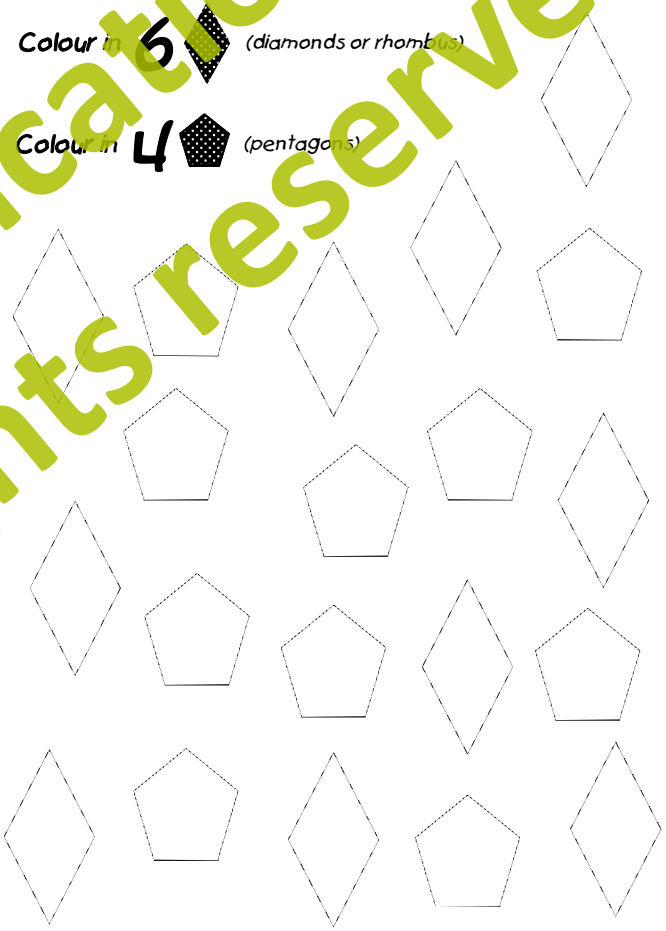
Count the number of swings and slides.

slides

swings

Colour in 6 (diamonds or rhombus)

Colour in 4 (pentagons)



Write these numbers in **order** from smallest to largest.

5	10	1	3	8	4						

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Number Knowledge Worksheet

37

Bk1

Name: _____ Class: _____

Write in the missing numbers as you count from 1 to 10.

			4		6			9	

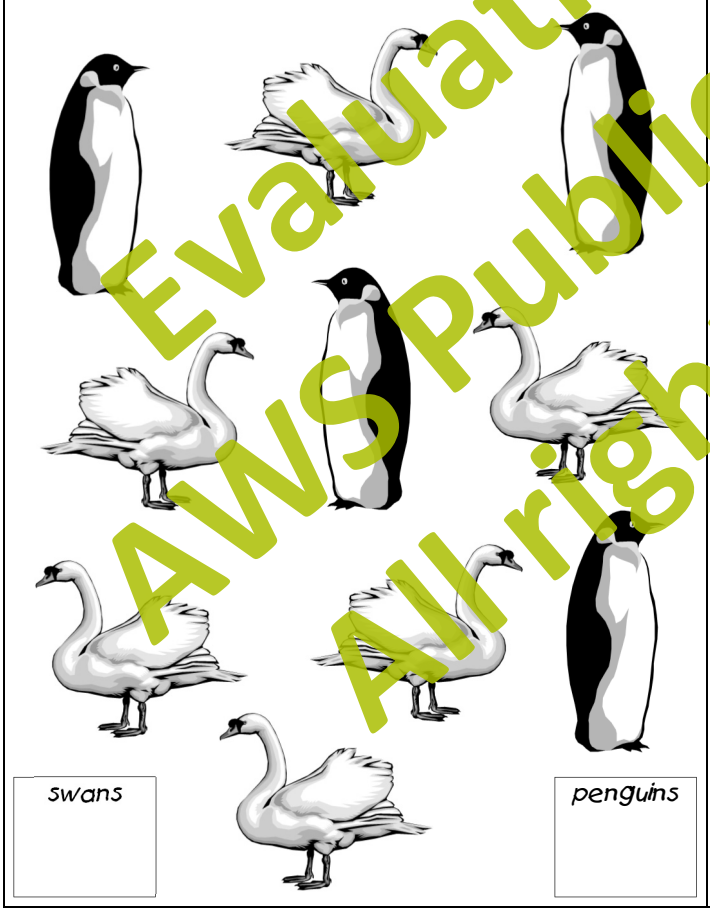
Write the number that comes **after** ...

6		1	
9		8	
3		4	

Write the number that comes **before** ...

		3	
		7	5
		6	2

Count the number of penguins and swans.

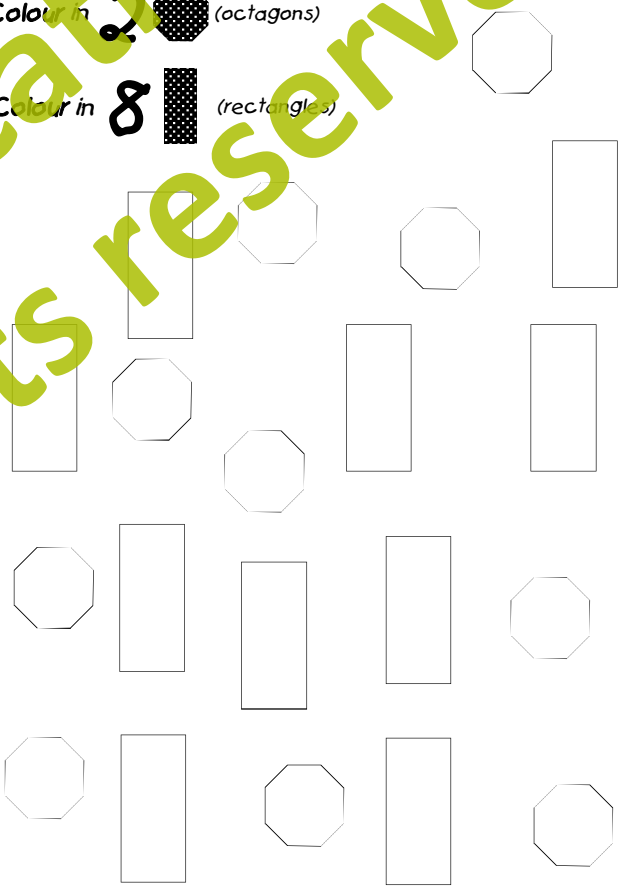


swans

penguins

Colour in 2 (octagons)

Colour in 8 (rectangles)



Write these numbers in **order** from largest to smallest.

6	3	9	7	1	4						

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Number Knowledge Worksheet

38

Bkl

Name: _____ Class: _____

Write in the missing numbers as you count **backwards** from 10 to 1.

10					5			2	

Write the number that comes **after** ...

9		4	
7		3	
2		8	

Write the number that comes **before** ...

	3		4
	10		6
	5		7

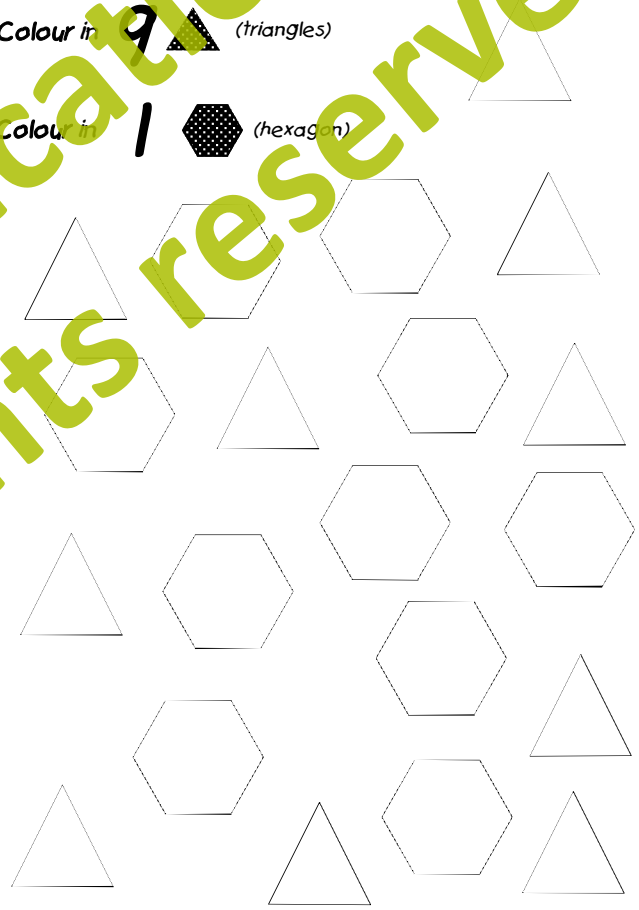
Count the number of turkeys and roosters.

turkeys

roosters

Colour in 7 (triangles)

Colour in 1 (hexagon)



Write these numbers in **order** from smallest to largest.

10	9	2	5	6	8						

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Number Knowledge Worksheet

39

Bk1

Name: _____ Class: _____

Write in the missing numbers as you count from 1 to 10.

		3				7		9	

Write the number that comes **after** ...

2		6	
9		5	
8		4	

Write the number that comes **before** ...

	6		3
	10		8
	2		7

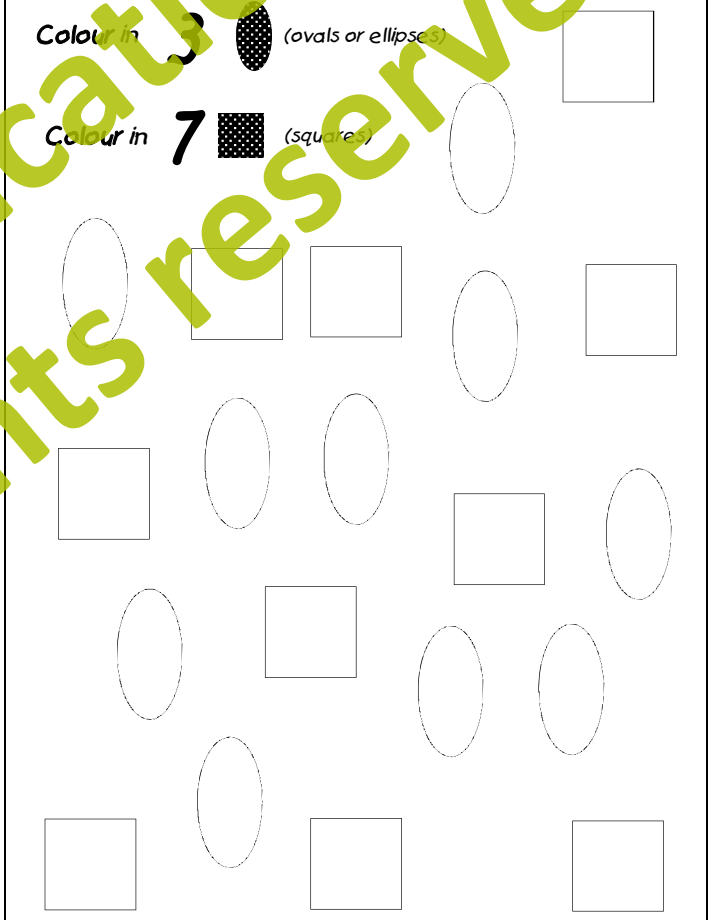
Count the number of drums and yoyos.

drums

yoyos

Colour in 3 (ovals or ellipses)

Colour in 7 (squares)



Write these numbers in **order** from largest to smallest.

7	2	8	4	5	10						

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Number Knowledge Worksheet

40

Bkl

Name: _____ Class: _____

Write in the missing numbers as you count **backwards** from 10 to 1.

		8		6		4			

Write the number that comes **after** ...

7		1	
9		6	
3		8	

Write the number that comes **before** ...

	9		8
	2		3
	9		4

Count the number of monkeys and pandas.

monkeys

pandas

Colour in 5 (circles)

Colour in 5 (parallelograms)

Write these numbers in **order** from smallest to largest.

4	5	6	1	3	8								

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