



Contents

Chapter 1 Numbers up to 10

- 1.1 Let's begin / 1
- 1.2 Let's sort (1) / 3
- 1.3 Let's sort (2) / 5
- 1.4 Let's count (1) / 7
- 1.5 Let's count (2) / 9
- 1.6 Let's count (3) / 11
- 1.7 Let's count (4) / 13
- 1.8 Let's count (5) / 15
- 1.9 Let's count (6) / 17
- 1.10 Counting and ordering numbers (1) / 19
- 1.11 Counting and ordering numbers (2) / 21
- 1.12 Let's compare (1) / 23
- 1.13 Let's compare (2) / 25
- 1.14 The number line / 27
- Unit test 1 / 29

Chapter 2 Addition and subtraction within 10

- 2.1 Number bonds / 33
- 2.2 Addition (1) / 35
- 2.3 Addition (2) / 37
- 2.4 Addition (3) / 39
- 2.5 Let's talk and calculate (I) / 41
- 2.6 Subtraction (1) / 43
- 2.7 Subtraction (2) / 45

- 2.8 Subtraction (3) / 47
- 2.9 Let's talk and calculate (II) / 49
- 2.10 Addition and subtraction / 51
- 2.11 Addition and subtraction using a number line / 53
- 2.12 Games of number 10 / 55
- 2.13 Adding three numbers / 57
- 2.14 Subtracting three numbers / 59
- 2.15 Mixed addition and subtraction / 61
- Unit test 2 / 63

Chapter 3 Numbers up to 20 and their addition and subtraction

- 3.1 Numbers 11–20 / 65
- 3.2 Tens and ones / 67
- 3.3 Ordering numbers up to 20 / 69
- 3.4 Addition and subtraction (I) / 71
- 3.5 Addition and subtraction (II) (1) / 73
- 3.6 Addition and subtraction (II) (2) / 75
- 3.7 Addition and subtraction (II) (3) / 77
- 3.8 Addition and subtraction (II) (4) / 79
- 3.9 Addition and subtraction (II) (5) / 81

- 3.10 Let's talk and calculate (III) / 83
- 3.11 Adding on and taking away / 85
- 3.12 Number walls / 87
- Unit test 3 / 89

Chapter 4 Recognising shapes

- 4.1 Shapes of objects (1) / 91
- 4.2 Shapes of objects (2) / 93
- Unit test 4 / 95

Chapter 5 Consolidation and enhancement

- 5.1 Sorting shapes / 98
- 5.2 Calculation with reasoning / 100
- 5.3 Comparing numbers / 102
- 5.4 Half and quarter / 104
- 5.5 Let's do addition together / 106
- 5.6 Let's do subtraction together / 108
- 5.7 Making number sentences / 110
- 5.8 Mathematics playground (1) / 112
- 5.9 Mathematics playground (2) / 114
- 5.10 Mathematics playground (3) / 116
- Unit test 5 / 118

Chapter 6 Numbers up to 100

- 6.1 Tens and ones / 122
- 6.2 Knowing 100 / 124
- 6.3 Representing numbers up to 100 (1) / 126
- 6.4 Representing numbers up to 100 (2) / 128

- 6.5 Comparing numbers within 100 (1) / 130
- 6.6 Comparing numbers within 100 (2) / 132
- 6.7 Practice and exercise (I) / 134
- 6.8 Knowing money (1) / 136
- 6.9 Knowing money (2) / 138
- Unit test 6 / 140

Chapter 7 Introduction to time (I)

- 7.1 Year, month and day / 143
- 7.2 Telling the time / 145
- 7.3 Hour and half an hour / 147
- Unit test 7 / 149

Chapter 8 Let's practise geometry

- 8.1 Left and right (1) / 152
- 8.2 Left and right (2) / 154
- 8.3 Left, centre and right, top, middle and bottom / 156
- 8.4 Comparing lengths / 158
- 8.5 Length and height (1) / 160
- 8.6 Length and height (2) / 162
- 8.7 Practice and exercise (II) / 164
- Unit test 8 / 167

End of year test / 169

Answers / 175

Chapter 1 Numbers up to 10

1.1 Let's begin



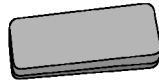
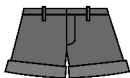
Learning objective

Count and match objects to 10

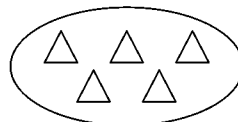
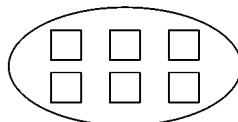
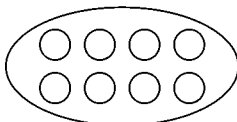
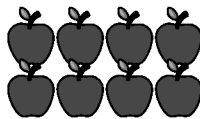
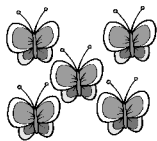


Basic questions

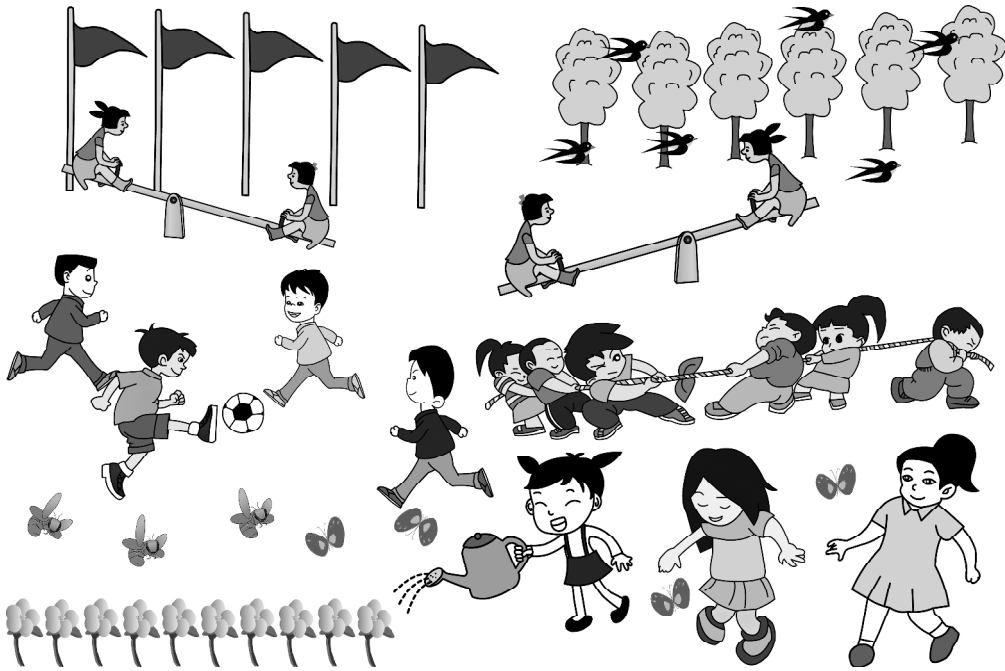
1 Draw a line to match each pair.













2 Count and then match.



3 Look at the picture, count and then fill in the blanks.





Challenge and extension question

4 How will you continue to colour the last three faces?



1.2 Let's sort (1)



Learning objective

Sort objects by 2 or more criteria



Basic questions

- ① Sort the objects into two sets. Put a “√” for toys and a “△” for stationery.



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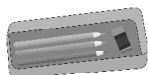
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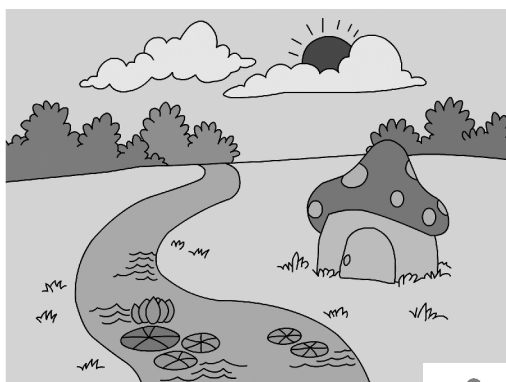


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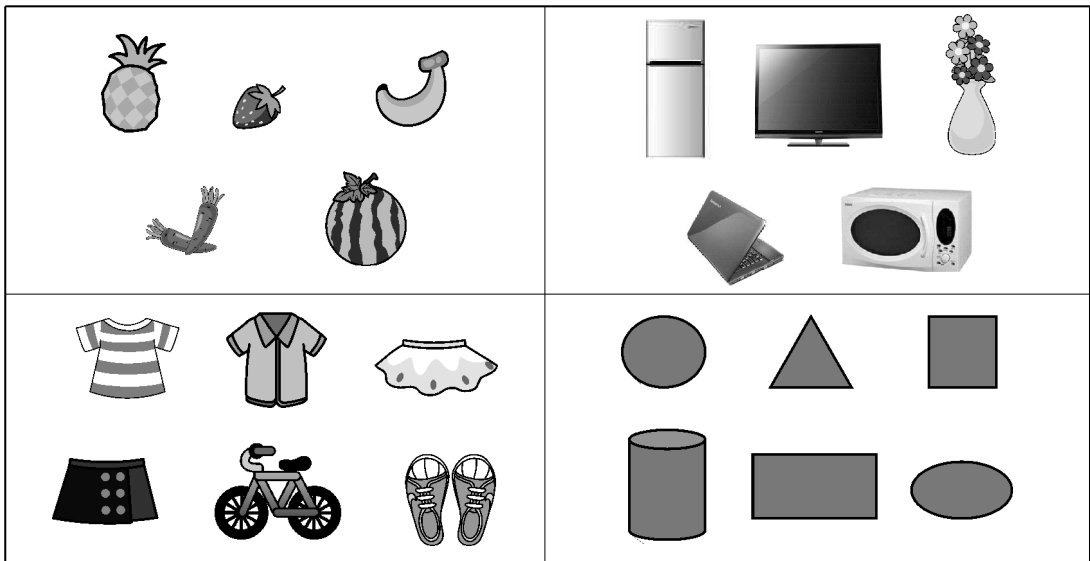


()

- ② Let the animals and plants go back to the places they live. (Draw a line to link them.)

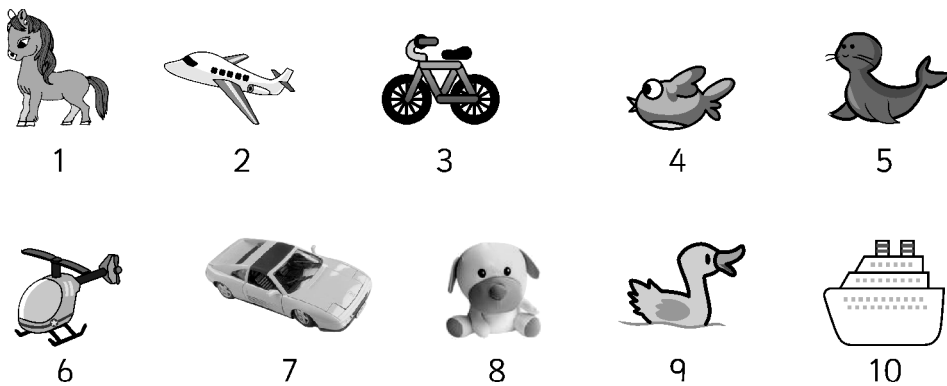


3 Circle the one that does not belong to the group.



Challenge and extension question

4 Sort the toys. Write the numbers in the boxes.



You may sort them in the following way:

In the air:

You can also sort them in another way:

1.3 Let's sort (2)



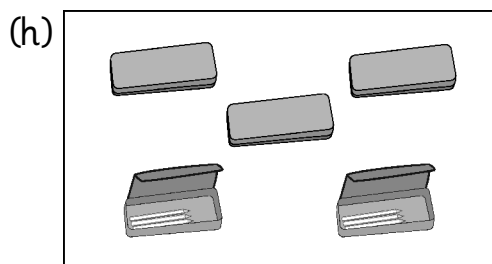
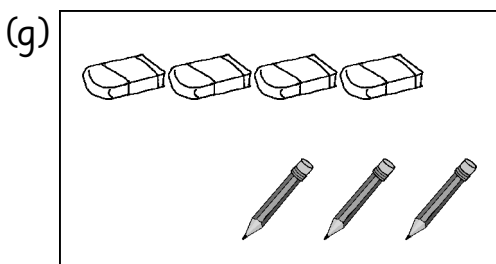
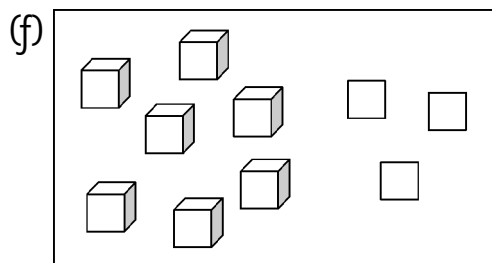
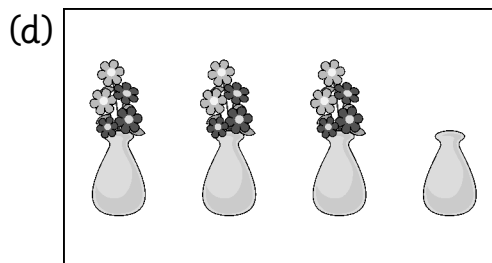
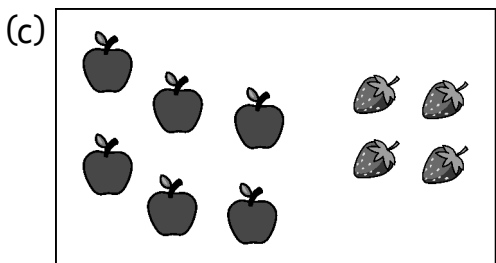
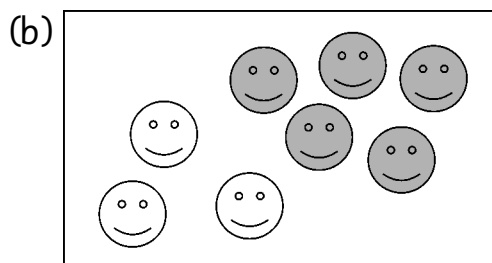
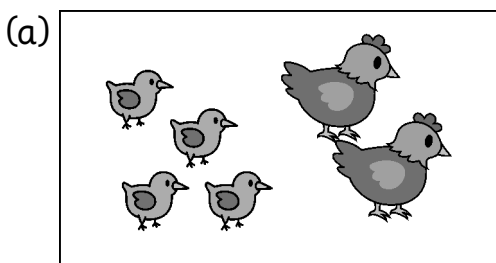
Learning objective

Sort objects in different ways

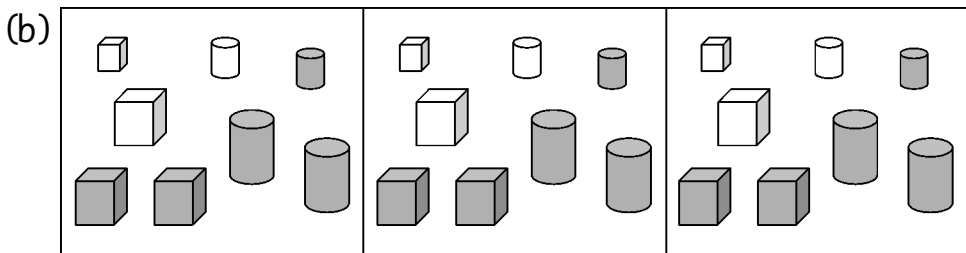
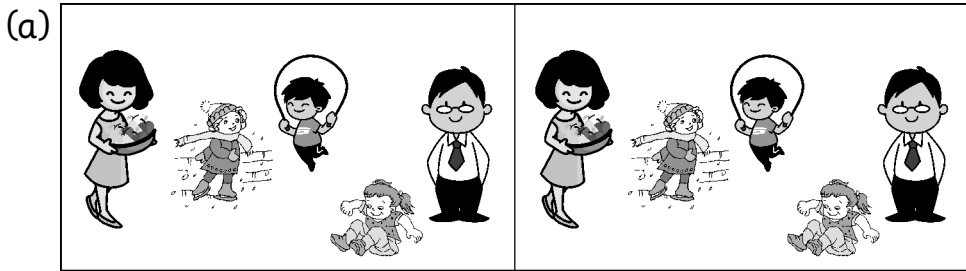


Basic questions

1 Sort and circle.



2 Sort the objects in different ways.

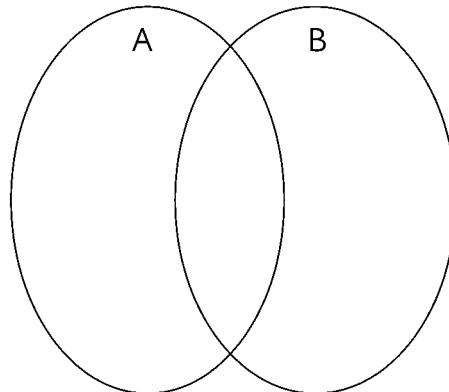


Challenge and extension question

3 Link the animals to the circles.

(a) Animals with four legs are in Circle A.

(b) Animals that can climb trees are in Circle B.

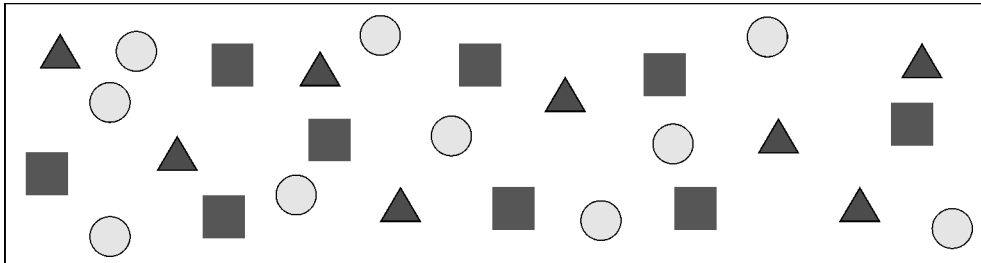































(c) Think: Which animal(s) should be in both Circle A and Circle B?



Challenge and extension question

2 Count and colour. The first one has been done for you.



	         		       		       
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1.5 Let's count (2)



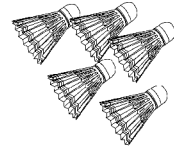
Learning objective

Count and write numbers to 10



Basic questions

- 1 Count and match. Then colour the dots and write the number in the space below (two and eight have been written for you as examples).



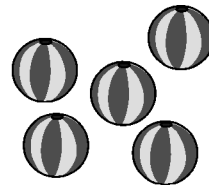
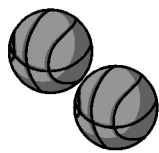
1
one






2
two

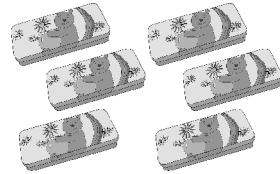
3
three

4
four

5
five



	●●○○○	two	2
	○○○○○		
	○○○○○		
	○○○○○		
	○○○○○		



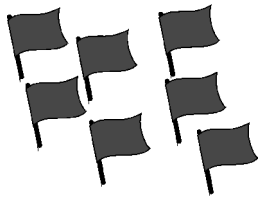
6
six

7
seven

8
eight

9
nine

10
ten

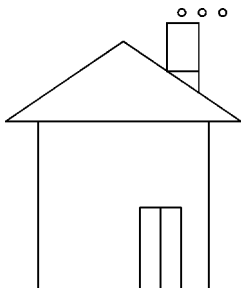


	●●●●●● ●●●○○○	eight	8
	○○○○○○○ ○○○○○○○		
	○○○○○○○ ○○○○○○○		
	○○○○○○○ ○○○○○○○		
	○○○○○○○ ○○○○○○○		



Challenge and extension question

- 2 Count the shapes and write the number in the ().



There are () Δ , () \circ , () \square
and () \square

1.6 Let's count (3)



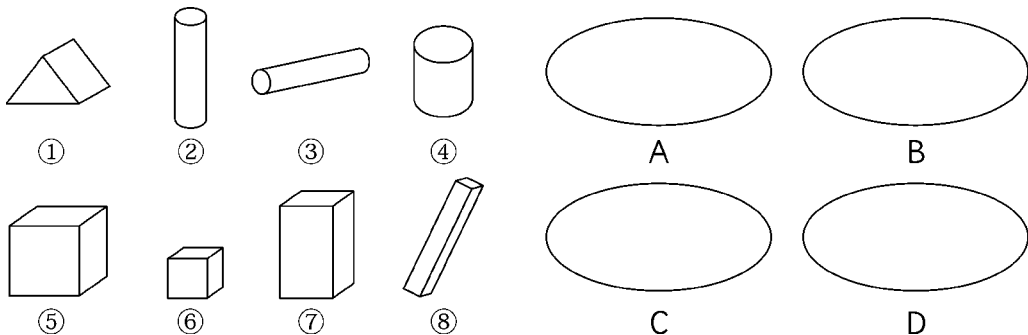
Learning objective

Sort and count shapes



Basic questions

- 1 Sort the objects. Put the numbers of the objects into the oval shapes on the right.



- 2 Count the colours and shapes and then write the results in the table.

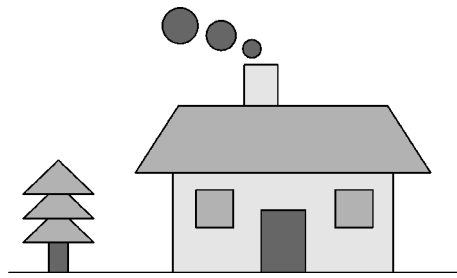
(a)









	()		()
	()		()
			()

(b)

	()		()
	()		()
	()		()
	()		()

(c)

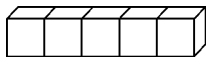


	()		()
	()		()
	()		()
			()
			()



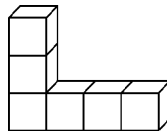
Challenge and extension question

- 3 Find each diagram made up of 5 small cubes and put a “√” in the bracket.



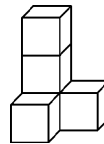
①

()



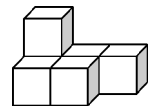
②

()



③

()



④

()

1.7 Let's count (4)



Learning objective

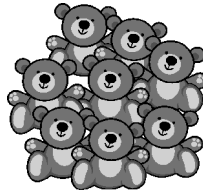
Count groups of up to 10 objects

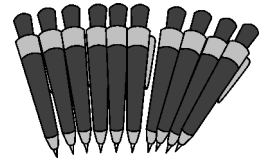


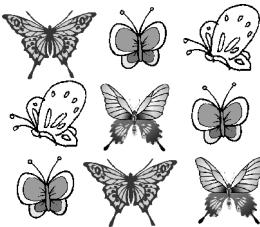
Basic questions

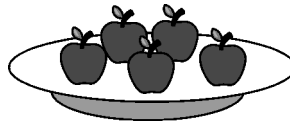
1 Count the objects and write the numbers in the boxes.













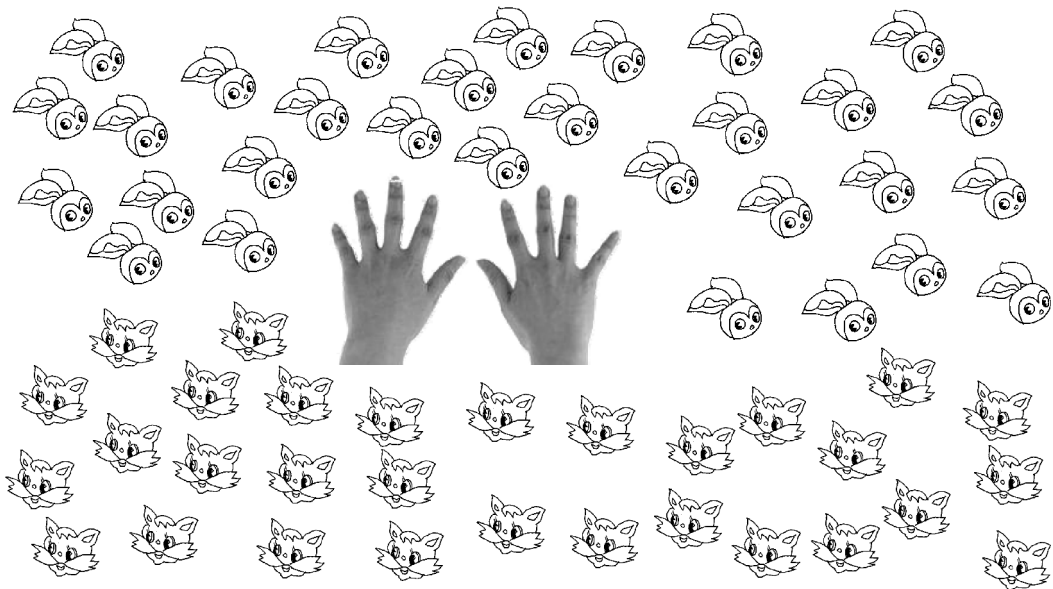
2 Read the numbers and colour the dots. The first one has been done for you.

5		6	
7		8	
9		10	

3 How much is two fives?

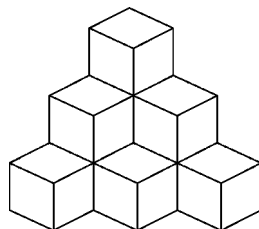


4 Count and circle 10 items in each group.



Challenge and extension question

5 Find and count the number of cubes in the diagram.



() cubes

1.8 Let's count (5)



Learning objective

Count and recognise numbers to 10, including zero



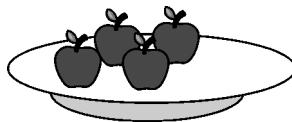
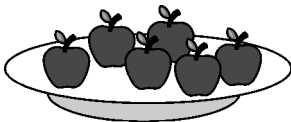
Basic questions

1 Look at the pictures and write the numbers in the boxes.

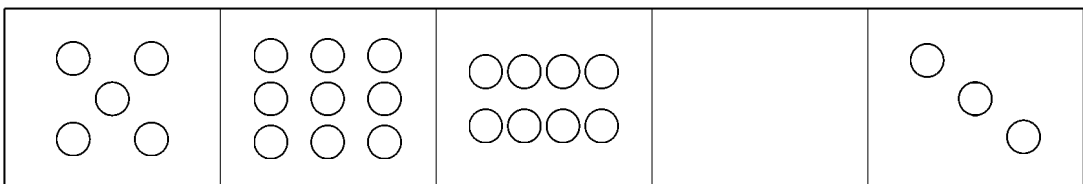
(a) How many pears are on each tree?



(b) How many apples are in each plate?



2 Count the dots and write the numbers in the brackets.



()

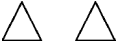
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()

()

()

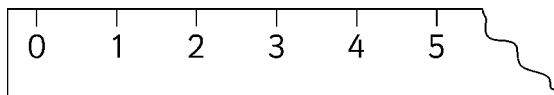
- 3 Draw the correct number of \triangle in the spaces below. The first one has been done for you.

				
2	10	0	7	4



Challenge and extension question

- 4 Look at your ruler and find the place where “0” is. Can you think what it stands for?



- 5 Fill in each box with a suitable number.

<input type="checkbox"/>					<input type="checkbox"/>						<input type="checkbox"/>
--------------------------	--	--	--	--	--------------------------	--	--	--	--	--	--------------------------

1.9 Let's count (6)



Learning objective

Count and partition numbers to 10



Basic questions

1 Count and then fill in the blanks.

8

● ___ ○ ___

6

● ___ ○ ___

9

● ___ ○ ___

5

● ___ ○ ___

10

● ___ ○ ___

7

● ___ ○ ___

2 Colour the dots and write down the numbers. The second one has been done for you.

		1	4

3 Draw the correct number of dots to the other side of each oval.

10 6 8

5 9 7

4 Draw and then fill in the boxes.

8

□ and □

□ and □

□ and □

□ and □



Challenge and extension question

5 Look for patterns and fill in with suitable numbers.

2		4		6		8			
1	1	2	2	3	3				

1.10 Counting and ordering numbers (1)



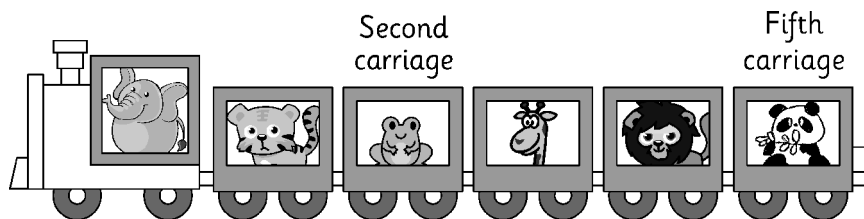
Learning objective



Count and order numbers to 10



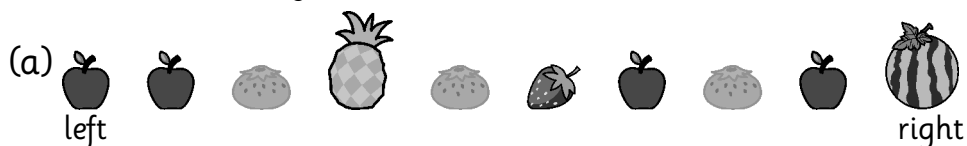
Basic questions

- 1 Look at the pictures and fill in the brackets.




The train has () carriages. The  is in the () carriage and the  is in the () carriage.

- 2 Count and then fill in the brackets.




There are () fruits in total.

Counting from the left,  is in the () position, and

 is in the () position.

Counting from the right,  is in the () position, and


 is the () position.




Counting from the left,  is in the () position.

Counting from the right,  is in the () position.

There are () animals in total.

 is in the middle. There are () animals on its left.

There are () animals on its right.

There are () animals on the left of .

3 Count and colour. Start from the left.


Colour five of the hearts 


Colour the fifth heart 




Challenge and extension question


4 Draw the missing shapes in the boxes.

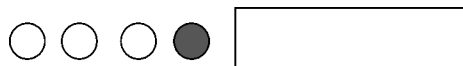
(a) Starting from the left to the right,  is in the fourth place.

How many  are there on its left?



(b) Starting from the right to the left,  is in the third place.

How many  are there on its right?



1.11 Counting and ordering numbers (2)



Learning objective


Write ordinal numbers to 10




Basic questions


- 1 Count the birds.



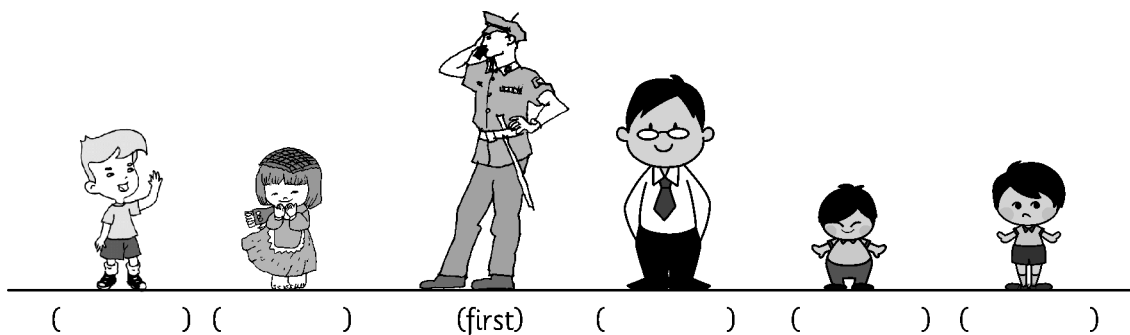
There are ()  in total.

Counting from the left, colour the fourth  yellow and all

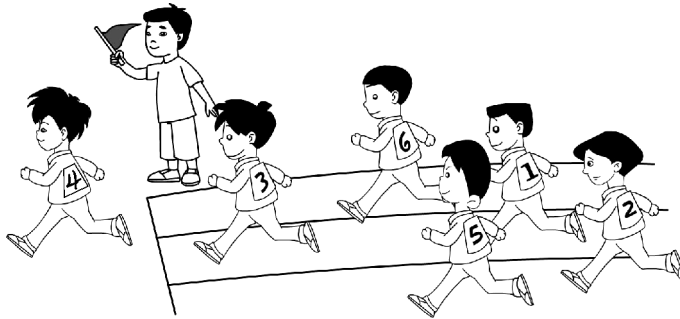
the  after the sixth one yellow. There are () coloured

 in total.

- 2 Put heights in order starting from the tallest. One has been done for you.

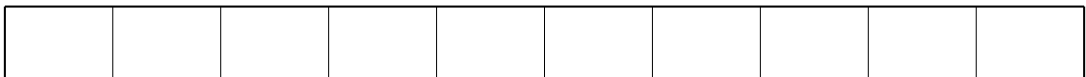


3 Look at the picture and then fill in the brackets.



Number 1	Number 2	Number 3	Number 4	Number 5	Number 6
()	()	()	()	()	()
place	place	place	place	place	place

4 Draw figures according to the instruction.

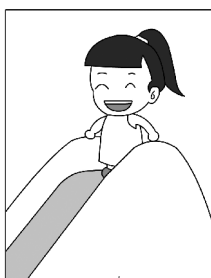


Counting from the left, draw one \triangle in the 5th place, one \bigcirc in the 10th place, one \square in the 3rd place, and finally two \heartsuit in the 7th place.

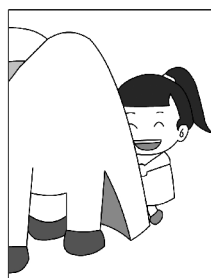


Challenge and extension question

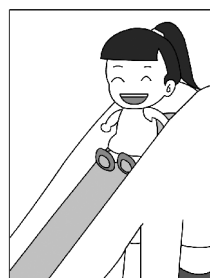
5 Put the pictures into the correct order. One has been done for you.



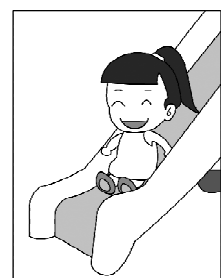
()



(first)



()



()

1.12 Let's compare (1)



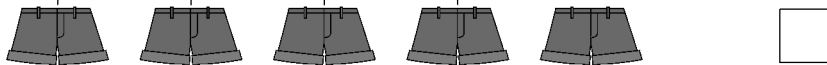
Learning objective

Compare sets to find more or fewer

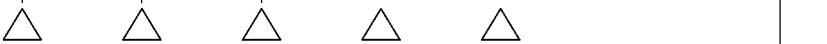
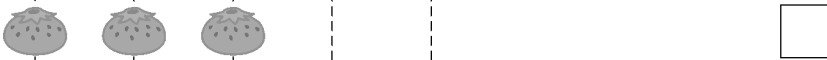


Basic questions

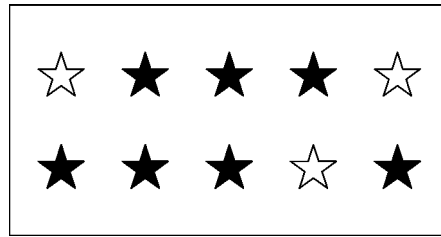
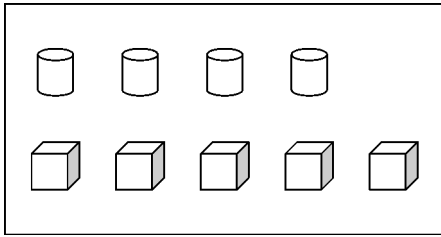
1 Compare the two sets. Put a tick (✓) for the set that has more.







2 Compare the three sets. Put a tick (✓) for the set that has the most.



3 Compare and then fill in the blanks.



There is _____ fewer
 than .

There is _____ more
 than .

There are _____ .

There are _____ .

There are _____ fewer 
 than .

There are _____ more 
 than .

4 Compare and then draw.

On the first line, draw 4 ○.

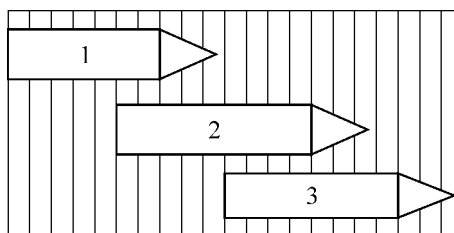
On the second line, draw △,
 so it has 3 more than ○.

On the third line, draw □,
 so it has 2 fewer than ○.



Challenge and extension question

5 Think first and then colour the longest pencil.



1.13 Let's compare (2)



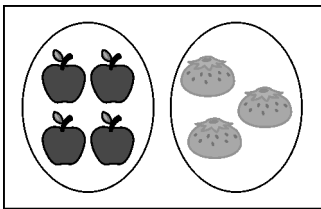
Learning objective

Compare sets using more than or less than

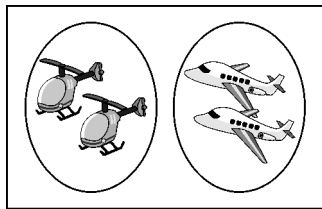


Basic questions

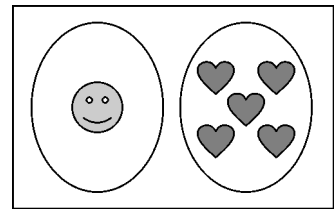
- 1 Look at the pictures. Fill in the \bigcirc with “ $>$ ” (greater than), “ $<$ ” (less than) or “ $=$ ” (equal to).



$$4 \bigcirc 3$$

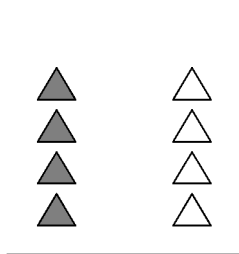


$$2 \bigcirc 2$$



$$1 \bigcirc 5$$

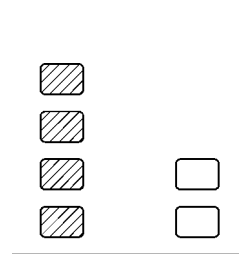
- 2 Look at the pictures and fill in with your answers.



$$\square \bigcirc \square$$

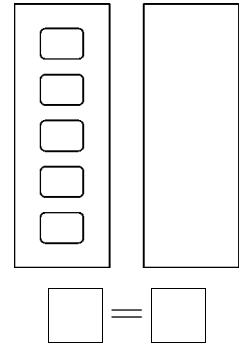
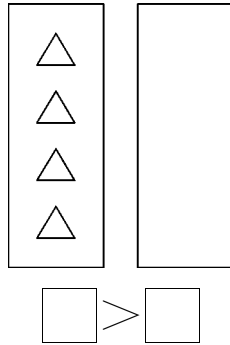
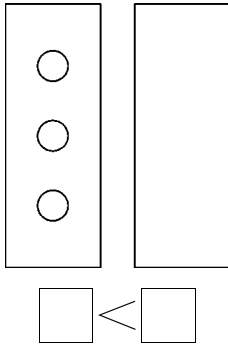


$$\square \bigcirc \square$$



$$\square \bigcirc \square$$

3 Compare, draw and then fill in the boxes below.



4 Fill in the \bigcirc with “>”, “<” or “=”.

$4 \bigcirc 6$

$8 \bigcirc 5$

$7 \bigcirc 4$

$9 \bigcirc 9$

$8 \bigcirc 2$

$7 \bigcirc 8$

$6 \bigcirc 6$

$0 \bigcirc 10$

5 Fill in the boxes with suitable numbers.

$5 < \square$

$8 > \square$

$7 = \square$

$9 > \square$

$\square > 7$

$\square < 10$

$\square < 6$

$\square = 8$

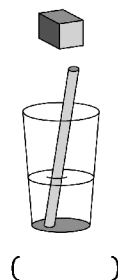
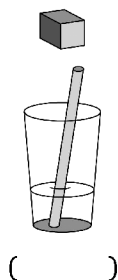
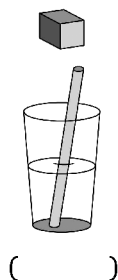
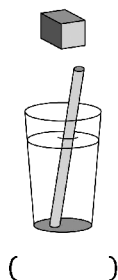
$9 > \square > \square$

$2 < \square < \square$



Challenge and extension question

6 Which glass of water tastes the sweetest after the cube of sugar is put in? Put a “√” in the bracket.



1.14 The number line



Learning objective

Identify numbers to 10 on a number line



Basic questions

- 1 Which of the following show a complete number line (without an ending point)? Put a “√” in the () to indicate your answer.

(a) $0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \quad 8 \quad 9 \quad 10$ ()

(b) $0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \quad 8$ ()

(c) $1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \quad 8 \quad 9 \quad 10 \quad 11$ ()

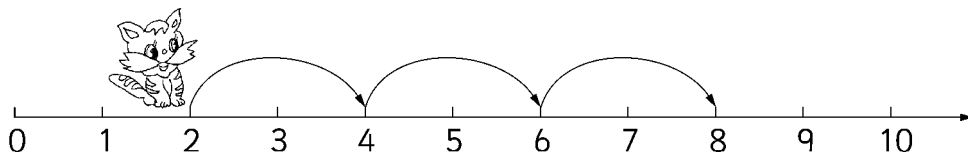
(d) $0 \quad 2 \quad 4 \quad 6 \quad 8 \quad 10$ ()


- 2 Fill in the boxes with correct numbers.

(a) $0 \quad 1 \quad \square \quad \square \quad \square \quad \square \quad \square \quad \square \quad 8 \quad \square \quad 10$

(b) $\square \quad \square \quad 2 \quad \square \quad \square \quad \square \quad 8 \quad \square$

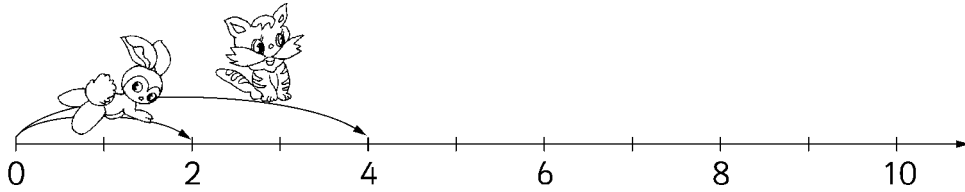
- 3 Fill in the blanks. (Note: one unit on a number line is the distance between any two neighbouring numbers, for example, from 0 to 1.)



(a) 

 jumps _____ times. It jumps _____ units



each time. It jumps _____ units altogether.

(b)

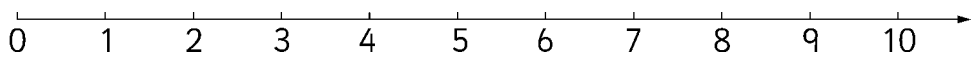


 jumps _____ units each time.  jumps _____ units each time.

Each time  jumps _____ fewer units than .

 jumps 2 times to reach _____.  jumps _____ times to reach 8.

4 Look at the number line below.



(a) Circle the numbers 7, 0, 3, 2 and 9 on the number line.

(b) Put the five numbers above in order, starting from the least:

(c) Put the numbers 1, 8, 5, 10 and 6 in order from the greatest to the least:



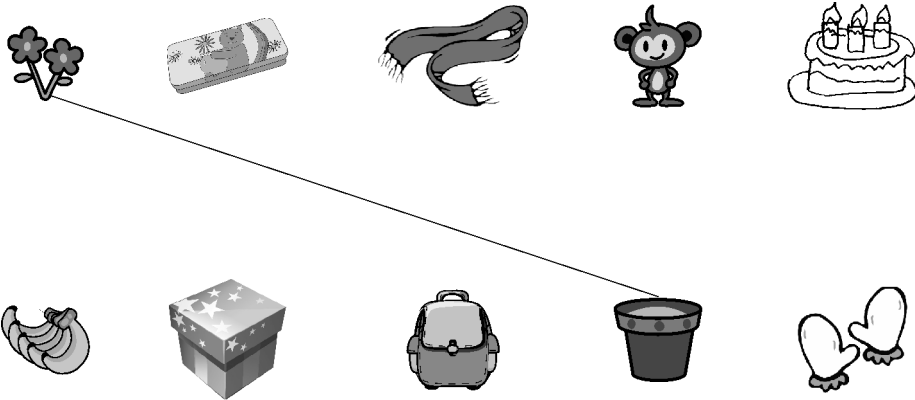
Challenge and extension question

5 Fill in the boxes with suitable numbers. Think carefully: How many numbers are suitable to fill in each box?

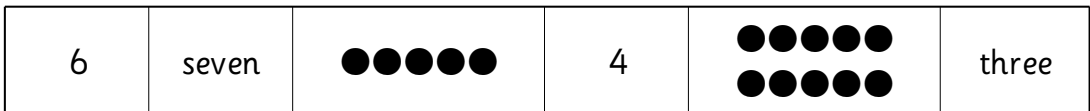
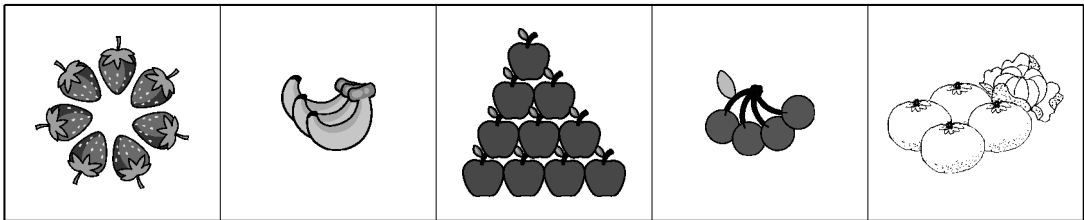
$6 > \square$ $\square < 8$ $0 < \square < 10$ $9 > \square > 3$

Unit test 1

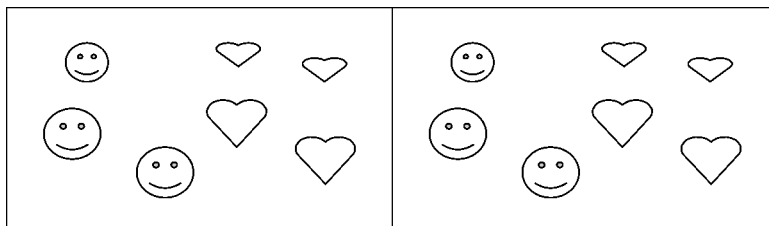
1 Match the pairs. The first one has been done for you.

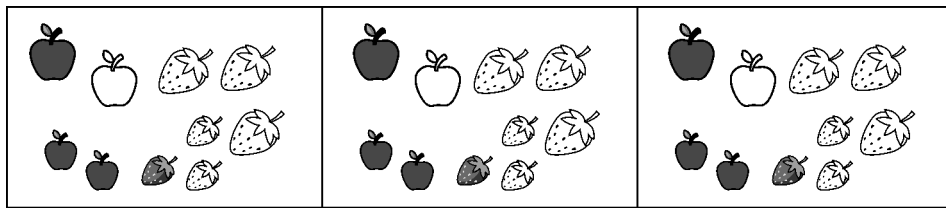


2 Count and draw lines to match.




3 Sort the objects into two sets using different ways.








4 Count and then fill in the brackets.



Starting from the left,  is in the () place and

 is in the () place.

Starting from the right,  is in the () place and 

is in the () place.

There are () animals in total.

5 Count and then colour.

(a) Start from the left.

Colour four of the apples



Colour the fourth apple



(b) Start from the right.

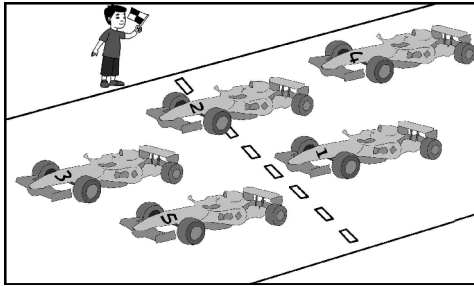
Colour the fifth strawberry



Colour five of the strawberries

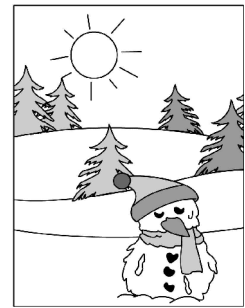
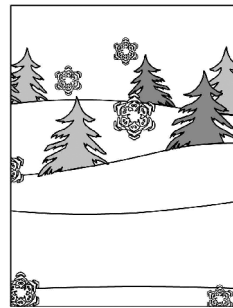
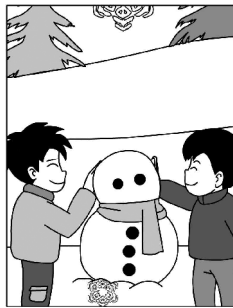
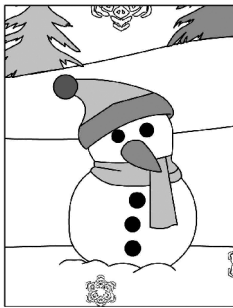


6 Put the cars in the correct order.

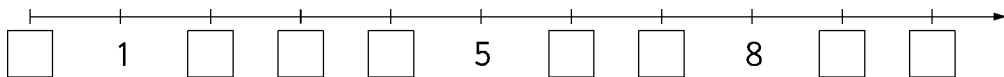


There are _____ cars in total.
 In first place is car number _____.
 Car number 5 is in the _____ place.
 Car number 1 is in the _____ place.
 In third place is car number _____.

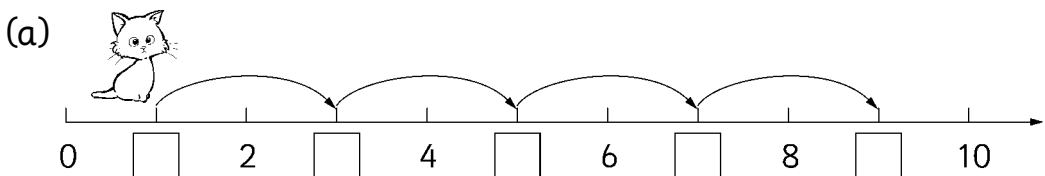
7 Put the pictures in the correct order.




8 Fill in each box to complete the number line.

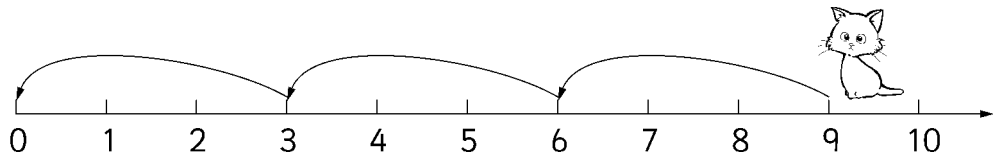



9 Write the numbers in the boxes and brackets below.



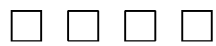
 starts to jump from (). It jumps () units each time and finally reaches ().

(b)



 jumps back from (). It jumps () units each time and finally reaches ().

10 Look at the pictures and compare.



There are 2 more \triangle than ().



There are () fewer \star than \circ .



There are as many () as ().



11 Fill in the \circ with “ $>$ ”, “ $<$ ” or “ $=$ ” and the \square with suitable numbers.

$5 \circ 7$

$9 \circ 6$

$4 \circ 4$

$10 \circ 5 \circ 0$

$\square < 8$

$7 > \square$

$8 = \square$

$\square < 6 < \square$

$\square = \square$

$\square < \square$

$\square > \square$

$8 \circ \square \circ 1$

12 Put the numbers in order.

(a) From the least to the greatest: 5, 8, 10, 4, 9 and 2.

(b) From the greatest to the least: 4, 7, 1, 6, 0 and 10.