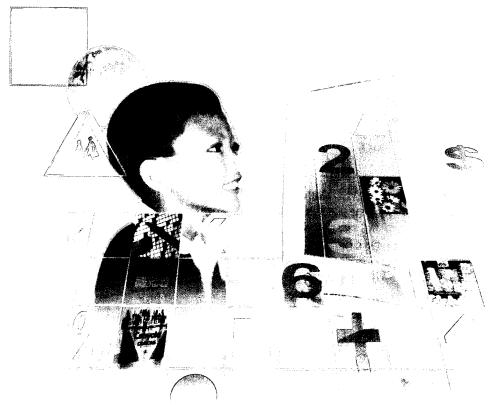
THINKING SATHEMATICS



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PREFACE

The Thinking Mathematics series is based on the latest primary mathematics syllabus. In this series, the concrete-pictorial-abstract format is used to introduce new concepts. The spiral approach is used throughout the series to consolidate and link mathematical concepts.

The series comprises textbooks and workbooks at each level. Textbook 1A comprises 9 units. Each unit is prefaced by a relevant situation from daily life and followed through with the following sections:

Do You Know? Relevant, thought-provoking questions are asked with regard to the

real life situation presented at the beginning of each unit

to link mathematics and daily life.

Let's Learn New concepts are explained in a straight-forward and interesting

way. Creative and critical thinking, as well as an awareness of problem-solving strategy are developed through worked examples

in this section.

Let's TryGuided sums are provided to confirm and consolidate the

concepts taught.

Practice Exercises involving critical and creative thinking are provided to

encourage pupils to look for alternative strategies in problemsolving and thus help them grow into independent and active

learners.

In-Class Activity Active participation from pupils and creative application of

mathematics to daily life, including IT and hands-on activities, helps to develop lifelong learners. Cooperation and team spirit are

encouraged through group and pair work.

Fun With Maths Mathematical concepts are extended beyond the boundaries of the

classroom and brought into the realm of exploration and experiment to further engage and develop the pupil's interest

in mathematics.

Other features of this series include:

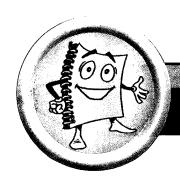
National Education This is integrated, whenever applicable, into the series to promote

a sense of nationality in the pupils.

Revision Exercises are provided to assist pupils in reviewing the

concepts and skills learnt as part of examination preparation.





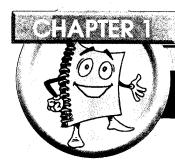
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NUMBERS 10-20

My Neighborhood



Numbers are everywhere.



The Singapore Flag is made up of **2** colors.

The Flag has **1** moon and **5** stars on it.



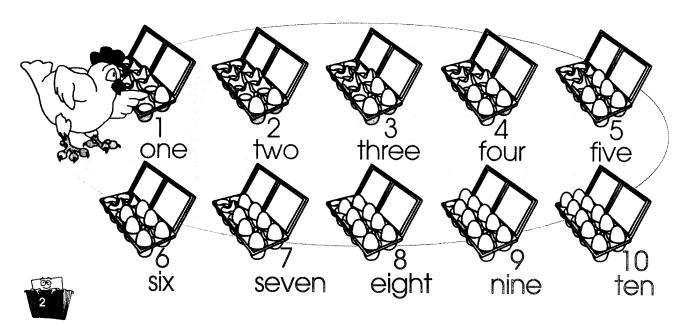
En-Class Activity

Think of your special number. Then tell it to your classmates and say why it is special to you.

Let's Learn

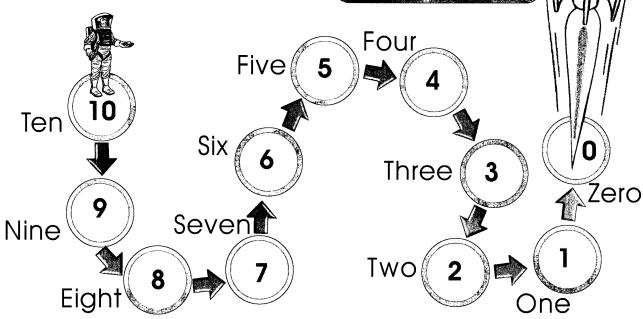
Count to 10

Count the number of eggs in each container:

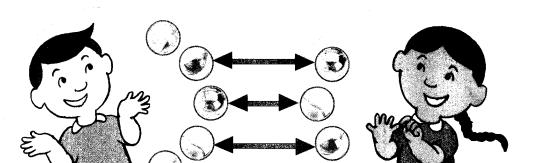


How many buses do you see?
There are no buses on the road.
The number of buses on the road is zero or 0.

Count backwards



Compare



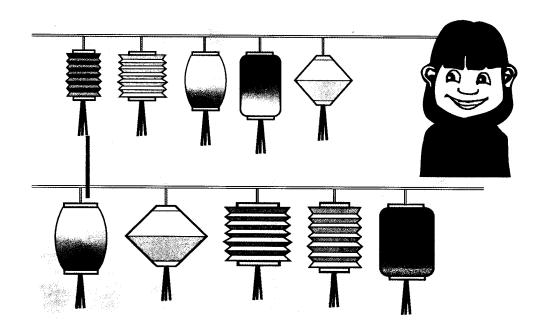
Devi

Who has more marbles? Who has fewer marbles?

Minghua



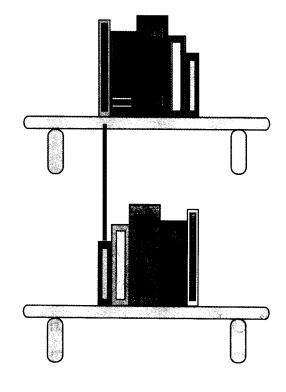
Match the lanterns hanging on the two lines. Do the two lines have the same number of lanterns?



Match the books on the shelves.

Do the shelves have the same number of books?

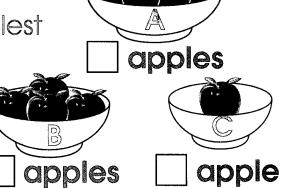




Which bowl has the greatest number of apples?
Which bowl has the smallest

number of apples?

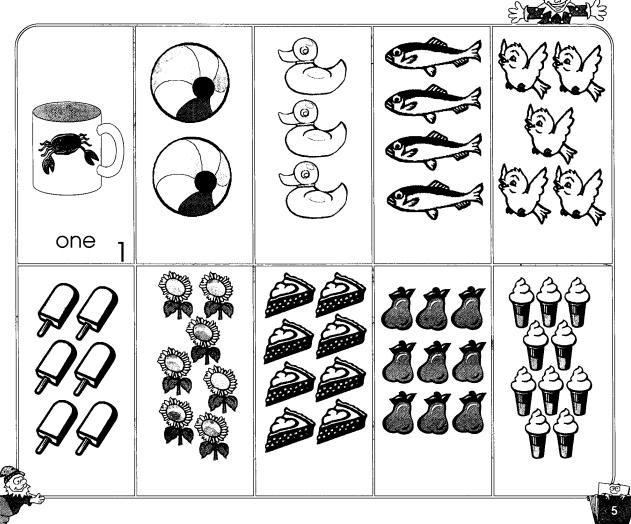
Which bowl does Mr. Worm prefer? Why?







1. Count and write down the number of things in words and numbers.



2. The number just after 7 is \bigcirc . The number just before 3 is \bigcirc .



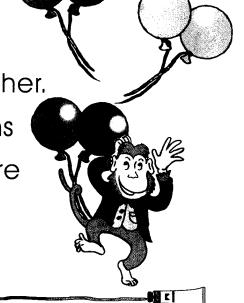


1. There are ___ balloons altogether.

The monkey holds balloons

with its tail and balloons are

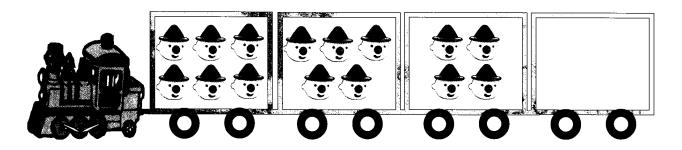
in the air.



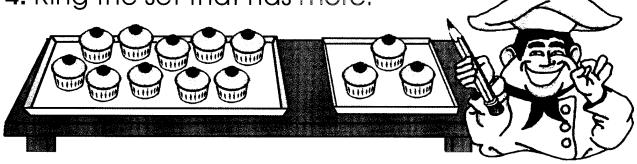
2. What are the missing numbers?

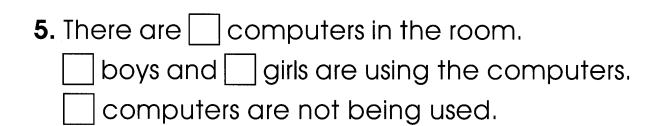


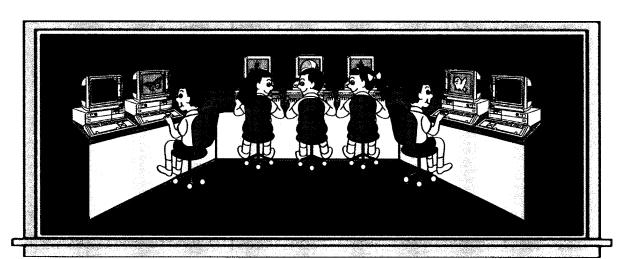
3. What comes next? Draw.



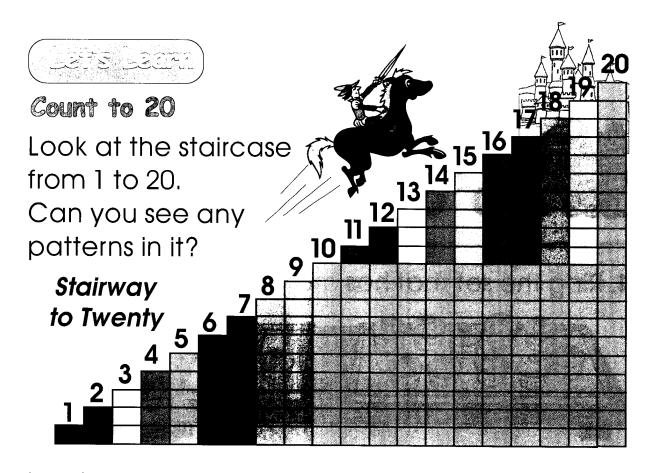
4. Ring the set that has more.



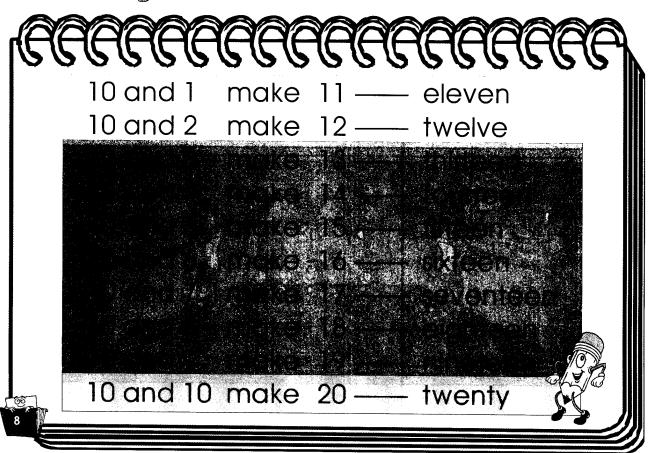




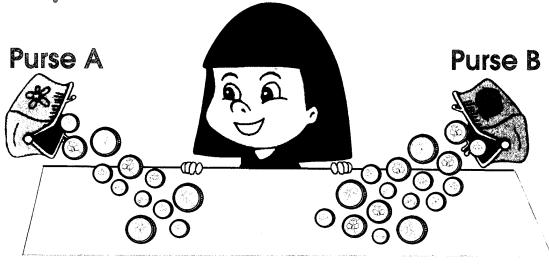




Numbers greater than 10



Compare

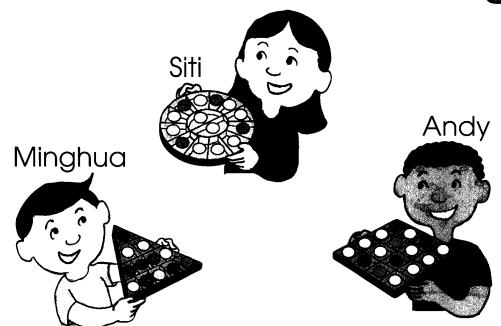


coins

coins

Which purse has more coins? Which purse has fewer coins?





How many sweets does Siti have? Who has more sweets than Siti? Who has fewer sweets than Siti?

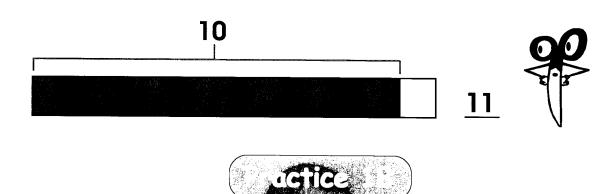




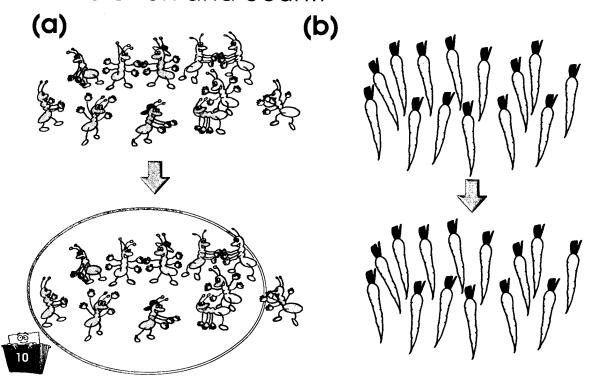
Make a ten

Get a worksheet from your teacher.

Cut out a row of 10 and paste them on the empty boxes on the worksheet. Then count on from 10 and write the number in the blank. An example has been done for you:



1. Make a ten and count:



2. What is the number under each sticker?



(b)
$$16 \implies \nearrow \implies 13 \implies \bigcirc$$

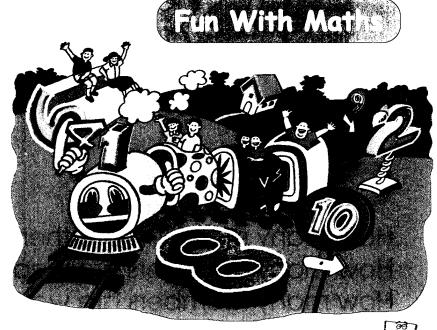


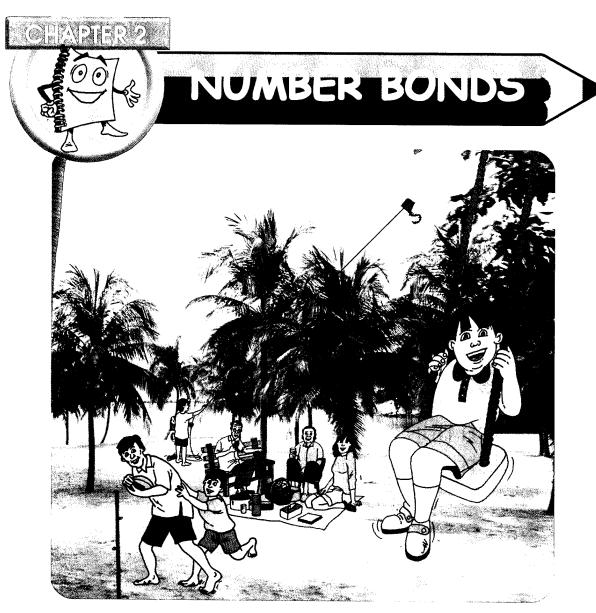
3. Compare the following numbers.



- (a) Which number is the greatest?
- (b) Which number is the smallest?
- (c) Say the numbers in order beginning with the smallest.

Can you spot the flag of the train in the shape of a '4'? Draw your own pictures using numbers.





This is the Happy family having a picnic at the beach.

Do You Know?

How many members are there in the family? How many members are wearing glasses? How many members are wearing shorts?



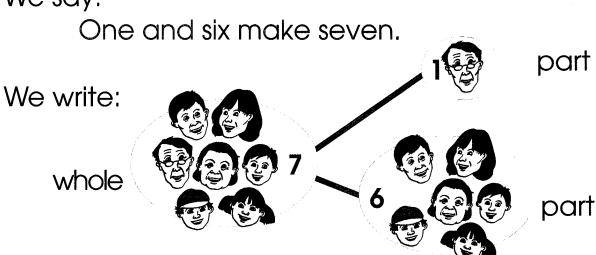
Let's Learn

Number bonds

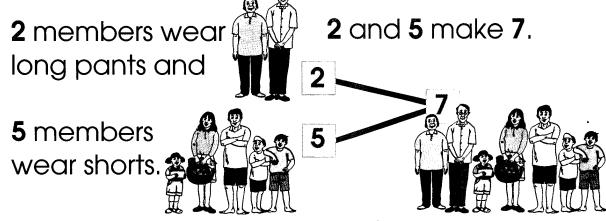
There are 7 members in the family.

Only 1 member wears glasses. The other 6 members do not wear glasses.

We say:



This is called a **number bond** of 7.

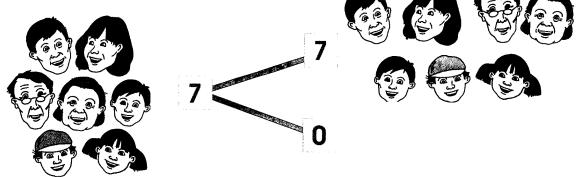


This is also a number bond of 7.



All 7 members are smiling. Zero members are not smiling.

We say 0 and 7 make 7.



This is also a number bond of 7.

Can you find other number bonds of 7?

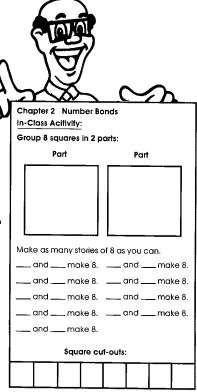
In-Class Activity

Get a worksheet from your teacher for this activity.

Cut out 8 squares from the worksheet and make as many number bonds of 8 as you can.

Then write them down on the worksheet.

Tell your classmates what you have found.



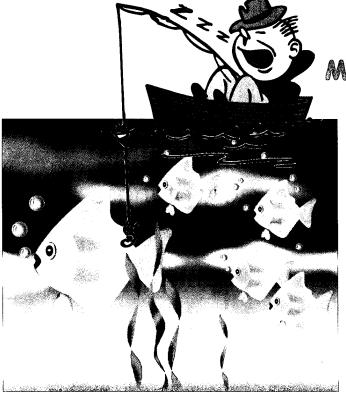




Making number stories

1. The story of 5 fish

How many fish do you see in the picture? 4 small fish and 1 big fish make 5 fish.
Can you tell another story of the 5 fish?



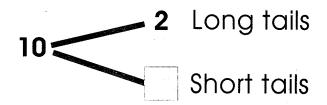
2. The story of 10 birds



(a) There are green birds and blue birds.

(b) 6 birds on the branch and ___ birds flying make 10 birds.

(c) Fill in the missing number.



(d) Can you tell another story of these 10 birds using number bonds?

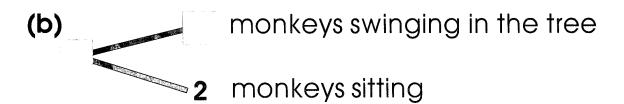
Practice 2A



Complete the 3 different stories about these monkeys.

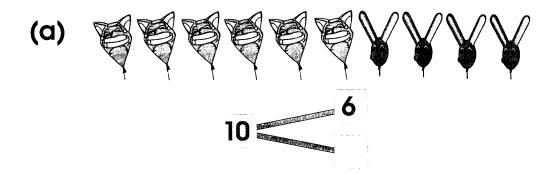
(a) monkeys are on the tree and 1 monkey is on the ground.

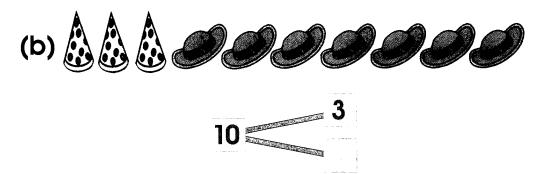
monkeys and 1 monkey make monkeys.



(c) 5 brown monkeys and \bigcirc grey monkeys make \bigcirc monkeys.
5 and \bigcirc make \bigcirc .

2. Complete the following number bonds of 10.

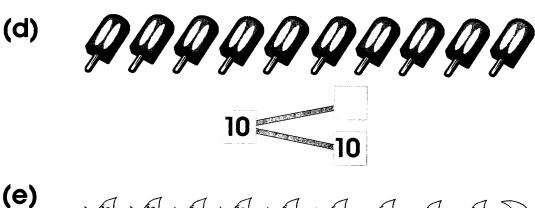


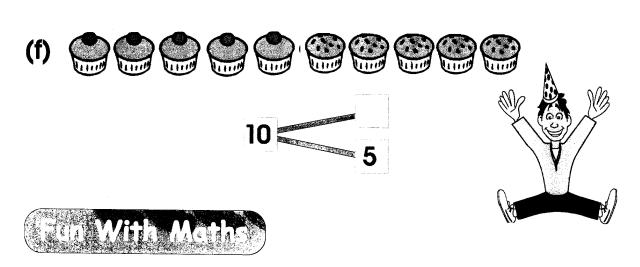












Be a little magician:

Throw a dice a few times. Each time it stops, look at the number on top and the number below. Do you see a pattern?



Ask your family members to throw a dice, and say you can tell them the number below.



Look at the giraffe family. What are the giraffes doing?

WE CELLIAN SW

How many baby giraffes do you see? How many adult giraffes are there? How many giraffes are there altogether?



Leislann

Making addition stories

We can tell a number story from the picture.

Two adult giraffes are eating leaves.

Three baby giraffes are drinking water.



There are five giraffes altogether.

We say:

Two giraffes **added** to three giraffes is **equal** to five giraffes.

We write the number sentence as:

$$2 + 3 = 5$$
 This is addition. It means putting together.

We can also say:

Three giraffes **added** to two giraffes is **equal** to five giraffes.



$$3 + 2 = 5$$



The picture shows Sammy's toys.



How many toy animals does Sammy have altogether?



Sammy has ____ teddy bears and ____ toy dinosaurs.

4 toy animals added to 5 toy animals is equal to 9 toy animals.

$$4 + 5 = 9$$

Sammy has 9 toy animals altogether.



How many balls do you see altogether?

small balls added to big balls is equal to 9 balls.

There are balls altogether.



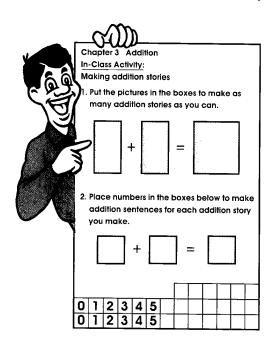


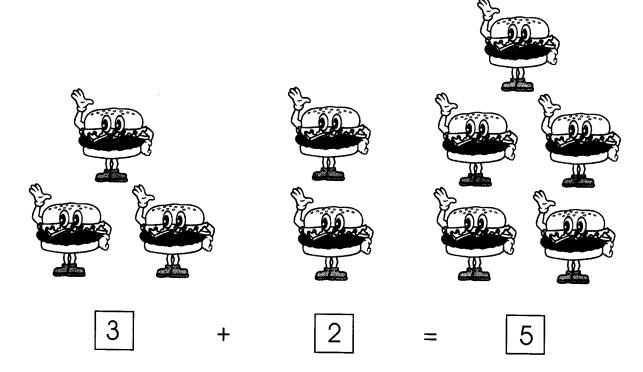
Get a worksheet from your teacher for this activity.

Place the pictures and numbers from the worksheet in the boxes to make as many addition stories as you can.

Make a number sentence for each addition story.

For example:



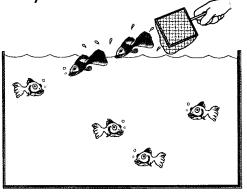






1. Complete the addition story.

2 guppies added to 4 goldfish is equal to _____ fish.



2. Make up an addition story for the number sentence.

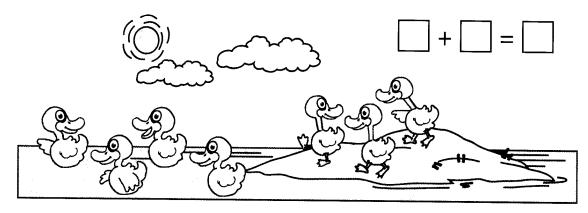


3. Look at the picture and write <u>two</u> number sentences.



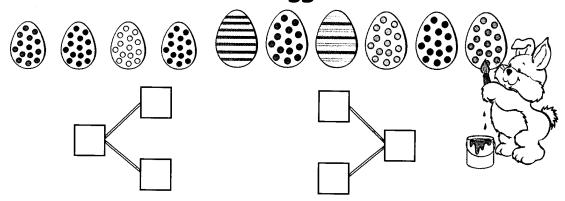


1. Tell an addition story for this picture. Then complete the number sentence.

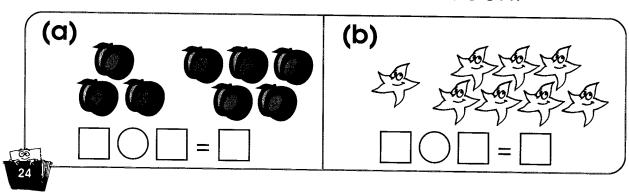


2. Tell two different addition stories for this picture. Then complete the number bonds for each.

Easter Eggs

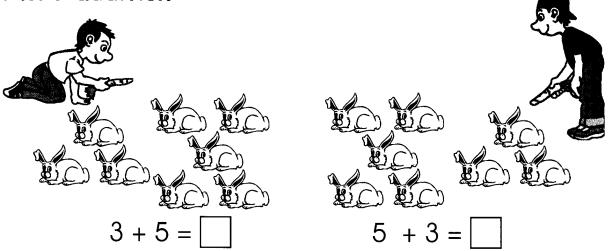


3. Write an addition sentence for each.





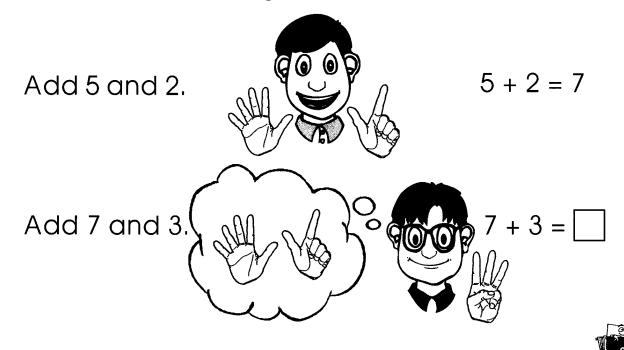
More addition



How many rabbits are there altogether? 3 + 5 is the same as 5 + 3

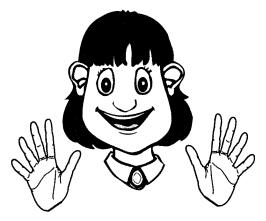
Counting on

We can use our fingers to add numbers.

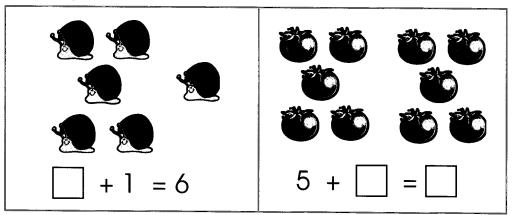




- 1. Use your fingers and add the following.
 - (a) 6 and 3
 - **(b)** 1 and 4
 - (c) 2 and 8

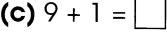


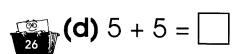
2. Complete the addition sentences.

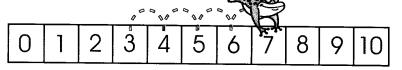




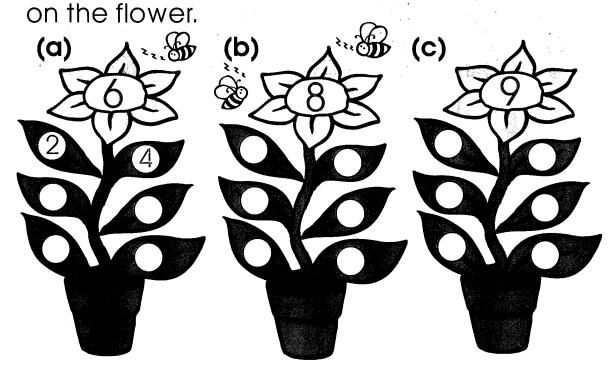
- 1. Help Mr. Frog to add.
 - (a) $3 + 4 = \boxed{}$
 - **(b)** 8 + 2 =
 - (c) 9 + 1 =
- Come hop with me! 3 + 4 = ? Start at 3 and jump 4 steps.







2. Fill in the missing numbers in each pair of leaves so that they add up to the number

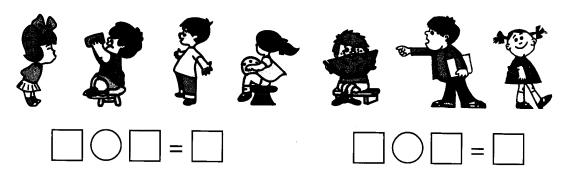


3. Fill in the missing numbers in the following addition sentences.

(a)
$$\Box + 2 = 7$$

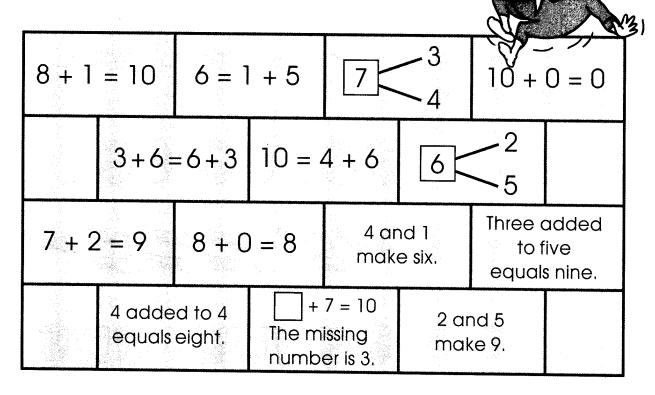
(c)
$$5 + \square = 8$$

4. Write 2 addition sentences for the picture.



Fun With Maths

Help Humpty Dumpty climb down the wall without falling. It is only safe to step on those bricks with the correct answer.



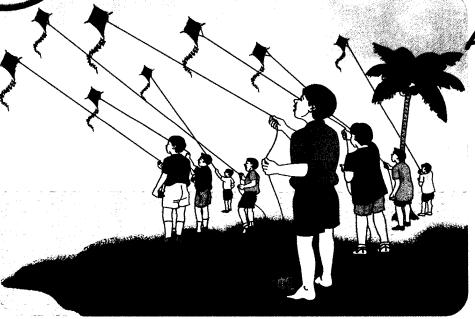
How many bricks can Humpty Dumpty step on?







SUBTRACTION





Look at the pictures. What is happening in A and B?

(ID) SANTE (IO)

How many kites are flying in the sky in picture A? How many kites are falling to the ground in picture B?

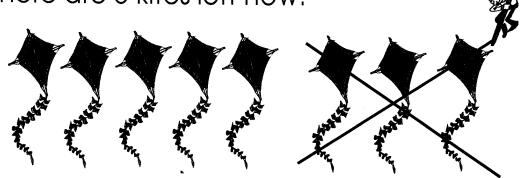


Making subtraction stories

(a) There are 8 kites at first.

3 kites fall down.

There are 5 kites left now.



We say:

3 kites **taken away** from 8 kites **leaves** 5 kites. We write:

$$8 - 3 = 5$$

This is subtraction.
It means taking away.

We can also say:

3 subtracted from 8 is equal to 5.





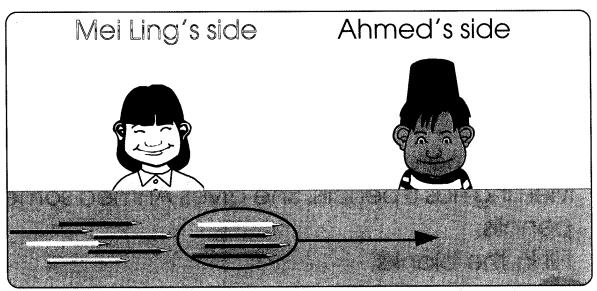
- **(b)** There are 5 coconuts on the tree at first.
 - coconuts fall off.
 - coconuts are left on the tree.
 - 2 taken away from 5 is equal to 3.

$$5 - 2 = 3$$

Can you make another subtraction story from pictures A and B?



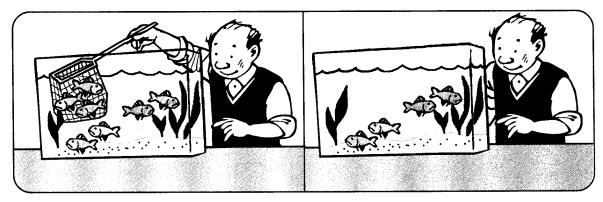
过过



- 1. Collect 10 objects, e.g. pencils.
- 2. Put 10 pencils on Mei Ling's side.
- 3. Move 4 pencils to Ahmed's side.
- 4. How many pencils does Mei Ling have now?

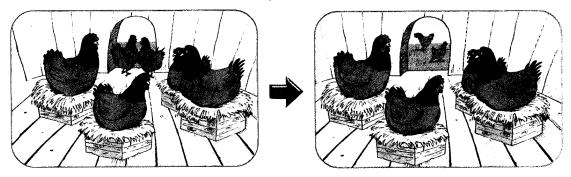
Let's Try

1. There are 7 fish in the tank. 3 fish are taken out with a net. Find out how many fish are left in the tank.



Complete these.

- (a) 3 subtracted from 7 is equal to
- **(b)** 7 = =
- 2. Tell a subtraction story.



Mr. Lim has 6 hens on his farm.

- hens walk out of the chicken coop.
- hens are left inside the chicken coop.

Write a subtraction sentence for this story.

Charling Victorial

1. Complete the subtraction stories below.





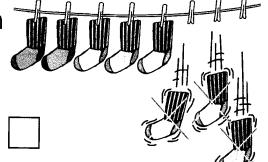




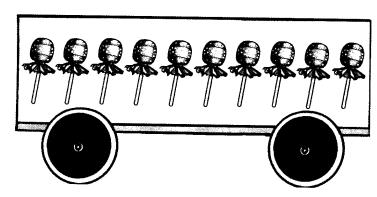
2 taken away from 6 is equal to .

(b) 3 subtracted from

8	is equal to	
---	-------------	--



2. Cross out the lollipops to be taken away. Then fill in the correct answers.



3 taken away from 10 is equal to \square .



Peter



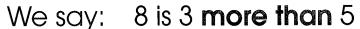
'More than' and 'less than'

Who has more rabbits? How many more? Who has fewer rabbits? How many fewer?



Peter has more rabbits.

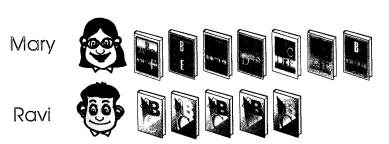
Jane has **fewer** rabbits.



5 is 3 less than 8.

We write: 8 - 5 = 3.





1.	Who reads more	books? How	many more'	?
----	----------------	------------	------------	---

7 - = [

Mary reads ____ books more than Ravi.

2. Who reads fewer books? How many fewer?

7 - \square = \square

Ravi reads ____ books fewer than Mary.



Practice 4B

1. Compare and write how many more.

Andy's toy cars



Ali's toy cars



Ali has ____ toy cars more than Andy.

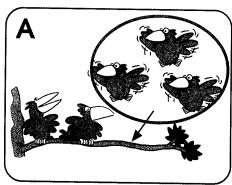
2. Which bag has fewer marbles? How many fewer?



Bag ___ has ___ marbles fewer than bag ___.

Let's Learn

Addition and subtraction



In picture **A**, there are 2 birds in the tree and 3 birds are flying in to join them.

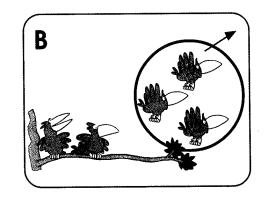
3 added to 2 is equal to 5 or 2 + 3 = 5



In picture **B**, there were 5 birds at first. 3 birds flew away.

3 taken away from 5 is equal to 2 or 5-3=2

There are 2 birds left.



Subtraction is the opposite of Addition.

In-Class Activity

Make a flip-flap card with your teacher's help.

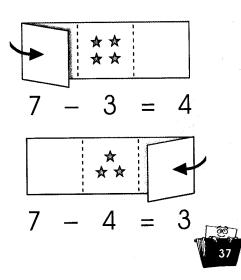
1. Draw pictures on the flip-flap card.

2. Make addition stories.

Turn the card upside down to get 4 + 3 = 7



- **3.** Fold one side. Write a subtraction sentence.
- **4.** Fold the other side. Make another subtraction sentence.





Look at this example.

$$2 + 4 = 6$$

$$6 - 4 = 2$$



Cross out the stars you have to take away. Then complete the number sentences.

1.
$$5 + 3 = 8$$





Shade 3 boxes that have the same answer.

$$3 + 3 \quad 4 - 3 \quad 10 - 1$$

$$7 + 3 + 3 + 6 + 8 - 4$$

$$4+510-69-7$$



WITHIN 20

Jenny's Mom



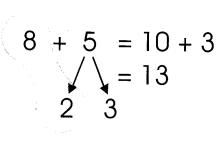
How many eggs did Jenny's Mom buy? How many eggs did Sarah's Mom buy? How many eggs did both buy altogether?

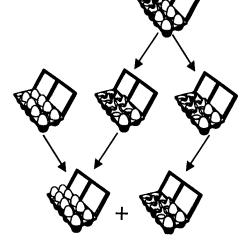


Let's Learn

Addition within 20

1. To add 8 eggs and 5 eggs, we can 'make a ten' first.





8 and 2 make 10.



2. Look at another example.

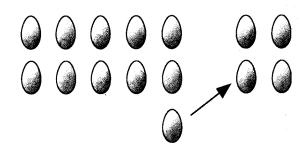
$$7 + 4 = 10 + 1$$
 $3 = 11$



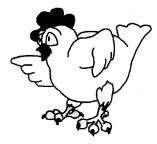
7 and 3 make 10.



3. Let us add 11 eggs and 4 eggs.

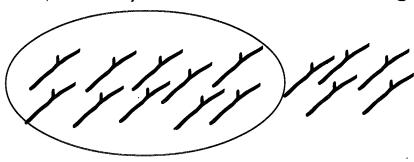


4 and 1 make 5.



There are 15 eggs altogether.

4. How many sticks are there altogether?



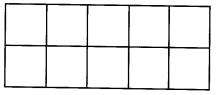
3 and 5 make 8.

There are \square sticks altogether.



In-Class Activities

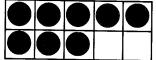
Get a worksheet from your teacher. Use the Ten-frames to add. For example, 8 + 6.

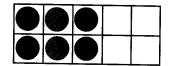


Ten-Frame

Put 8 counters on Ten-frame A and 6 on Ten-frame B.



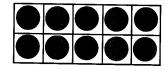


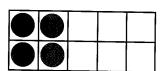


B

Move 2 counters from B to A to make a ten.

A





B

There are 4 counters on B.

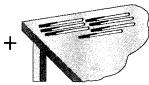
So,
$$8 + 6 = 10 + 4 = 14$$

Now, use the Ten-frames to do these:

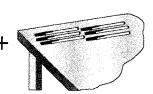


1. There are 9 pens in the box and 7 pens on the table. How many pens are there altogether?









9 + 7 = 10 +
$$\square$$
 = \square



There are pens altogether.

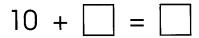
2. Count 10 beads and color them green.



Then complete the number sentence:

There are ____ beads altogether.

3. How many birds are there altogether?



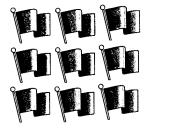


There are birds altogether.

Practice 5A

1. Ring a set of ten first. Then complete the number sentence below.

(a)





$$9 + 3 = 10 + \square = \square$$

(b)



$$14 + 4 = 10 + \square = \square$$



2. Make a ten and do these.

(a)
$$8 + 5 = 10 + \square = \square$$

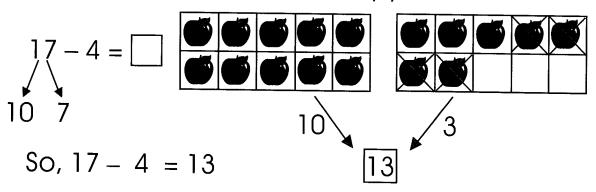
3. Find the answers below.

(b)
$$7 + 5 =$$

Let's Learn

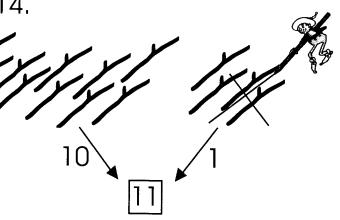
Subtraction within 20

1. Subtract 4 apples from 17 apples.

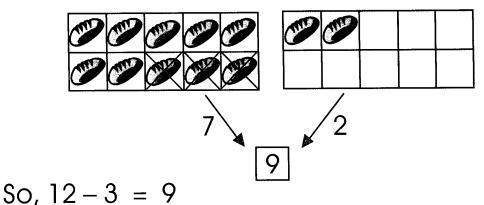


2. Take away 3 from 14.

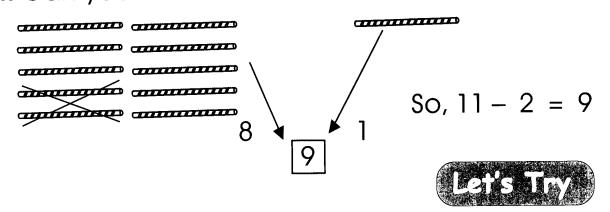
So, 14 - 3 = 11



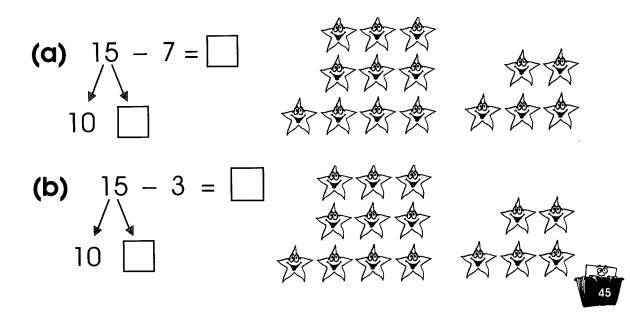
3. Subtract 3 buns from 12 buns.



4. Can you find out what 11 - 2 is?



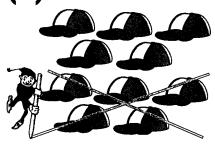
 Cross out the correct number of stars and find the answer.



Practice 5B

1. Complete the subtraction sentences.

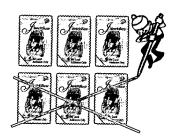
(a)



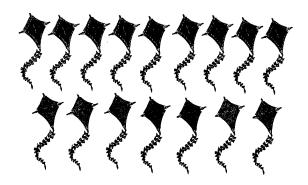


(b)





2. Complete the number sentence.



3. Fill in the blanks.

(a)
$$12 - 4 =$$



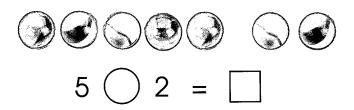


Alice is having a party at home.

How many children are there at the party? How many more girls than boys are there? Mother cuts the cake into 15 pieces. If each child eats 1 piece, how many pieces are left?



1. David has 5 marbles. Mother gives him 2 more. How many marbles does he have now?



David has marbles now.

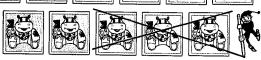


2.	. Ali has 11 stickers. He gives	away 3 to John.
	How many stickers does h	e have left?

11 () 3 = [



Ali has stickers left.



3. Jenny has 13 coins. Kate has 9 coins. Who has more coins? How many more?

13 () 9 = [

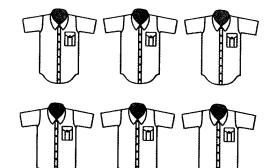


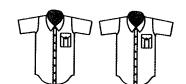
_____ has __ more coins than _____.

Proctice 5C

Write the correct sign ('+' or '-') and find the answer.

1. There are 8 shirts.
When 3 of them got dirty, how many are still clean?



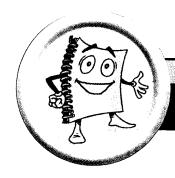


shirts are still clean.



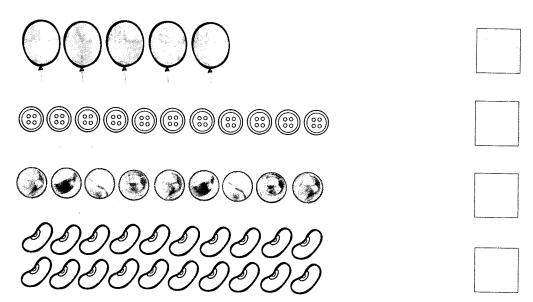
2. There are 5 oranges in the basket. One orange is outside the basket. How many oranges are there altogether? 5 () 1 = There are oranges altogether. 3. Joyce has 14 chicks. 6 of them are yellow and the rest are black. How many chicks are black? 14 () 6 = [chicks are black. 4. Betty made 9 party hats on Monday and 7 party hats on Tuesday. How many party hats did she make altogether?

Betty made | party hats altogether.

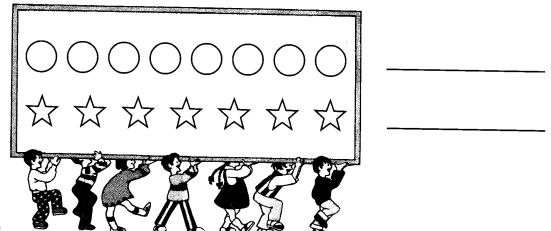


REVISION 1

Exercise 1

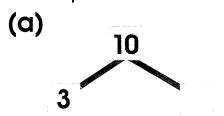


2. Write the number of things in each set in words. Then color the set that has more.





3. Complete the number bonds below:

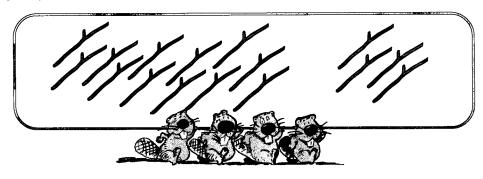




4. Look at the picture and fill in the boxes.

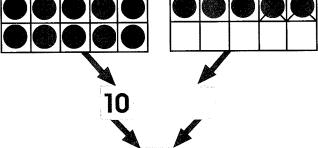


5. Make a ten and add.

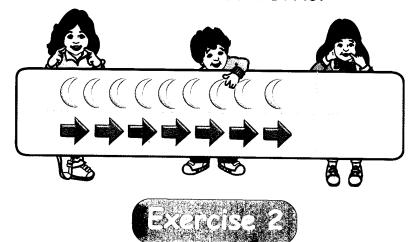


$$12 + 4 = 10 + \square = \square$$

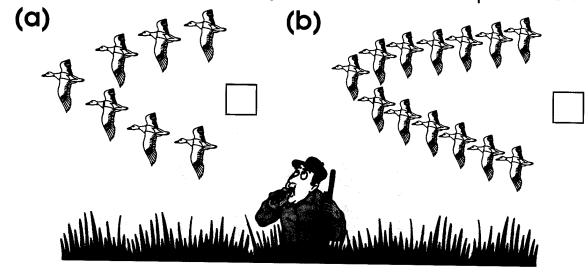
6. Fill in the correct numbers and take away 2 from 15.



7. Tick the set that has less items.



8. How many birds do you see in each picture?



9. (Arrange the numbers in order:

(a) from the greatest to the smallest;

8 0 4 6

greatest smallest

(b) from the smallest to the greatest.

15 18 8 13

smallest greatest

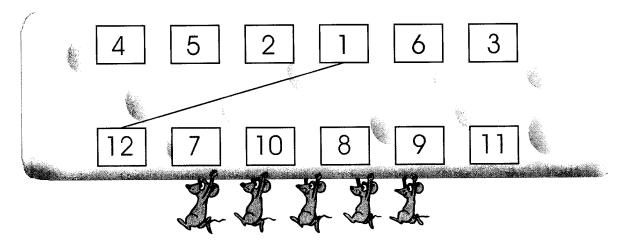


10. What is the mystery number?

Clues

- * Less than 10
- * Greater than 5
- * The number starts with the letter 'e'. The number is _____.
- 11. Fill in the missing numbers.
 - (a) 3 and ___ make 7.

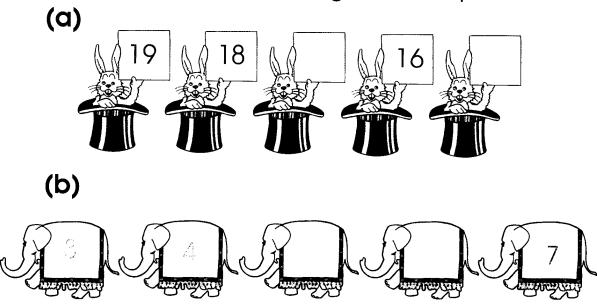
 - (c) $5 + \square = 10$ (d) $12 3 = \square$
- 12. Match the pairs of numbers that make 13.



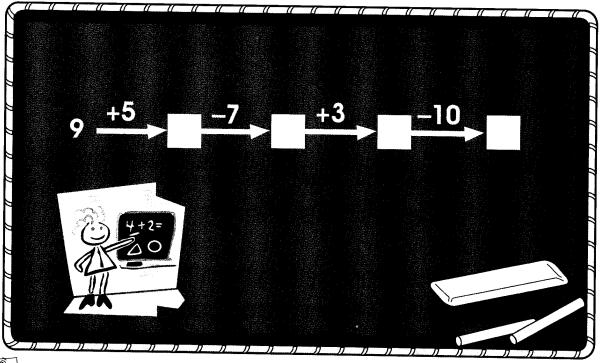
13. A clown gives away 5 green balloons and 7 red balloons. How many balloons does he give away altogether?

Exaraise \$

14. Complete the following number patterns.



15. Write the correct answer in each box.





16. Fill in the missing numbers.

17. (a) Ken has 9 stamps. Father gives him 7 more stamps. How many stamps does Ken have now?





Ken has ____stamps now.

(b) If he gives away 5 stamps to his sister, how many stamps will he have left?





He will have stamps left.

CHAPTERS



ORDER WITH NUMBERS

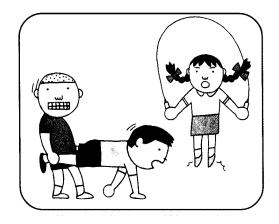


Look at the children standing in the line. What color T-shirt is the first boy in the line wearing? Which child is standing behind the girl in the blue dress?

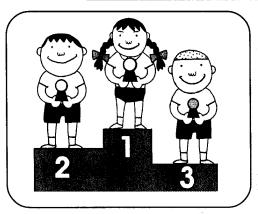
How many children do you see in the line?



Do You know?

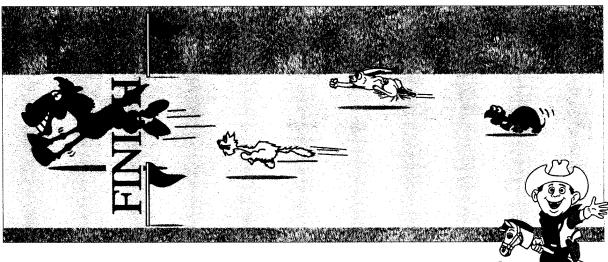


Numbers are used for counting.



Numbers are used to tell the order or to name the position.



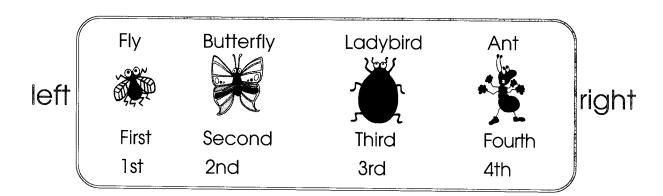


Which animal is the winner of the race? We say:

The horse is **first** or the horse is **1st**. The cat is **second** (**2nd**) in the race.

Can you find out the positions of the other animals in the race?

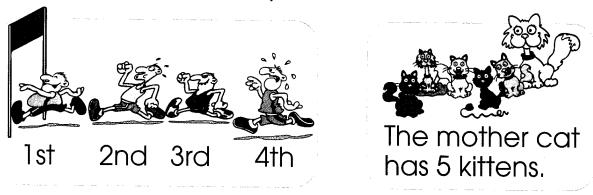
Look at the picture below. From the left, the is the first insect.



Which insect is first from the right?



1. For each picture, say how the number is used.



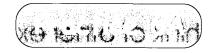
2. Read the clues. Then color the crayons.

Clues:

- From the left, the red crayon is third and the green crayon is second.
- From the right, the orange crayon is first and the blue crayon is fourth.

CRAYONS





1.







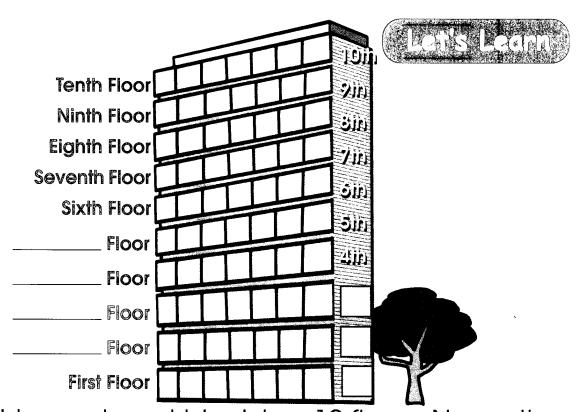






- (a) How many hearts do you see?
- **(b)** Put a '✔' on the 5th heart.
- (c) Ring the 2nd heart.
- 2. Color the 4th rabbit from your right and ring the second rabbit from your left.





This apartment block has 10 floors. Name the floors, starting from the top.



Can you think of other examples where numbers are used to name positions or tell order?

In-Class Activity

From your class timetable, copy the periods you have today in the correct order.

1st 2nd	
5th 6th	
10th	

Practice 6B

1. Ring the 7th face. Cross out the 4th face.



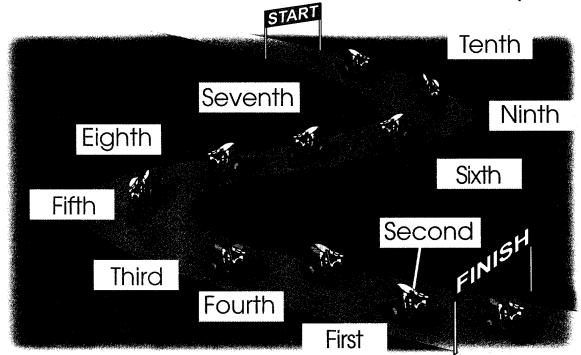


2. Eight students are standing in a row. Al is 3rd from the front of the row.



How many students are standing behind AI?

3. The cards tell the position of each cyclist in the race. Match each card to the correct cyclist.





Sit in a circle. Say hello to the third student sitting on your right. Who is the second student to your left? Find out the birthdays of the fifth student to your right and the fourth student to your left.



Look around the kitchen. There are many things of different shapes.

Can you name some shapes?

Shapes are all around us.

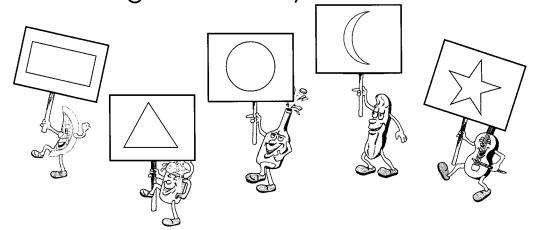




Do you recognise this flag? What shapes and colors do you see on it?



Sometimes we can find these shapes on the national flag of a country.



Can you find some of these shapes in the flags

Japan





Singapore

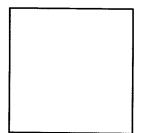


Puerto Rico





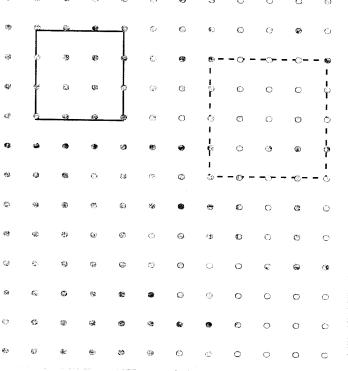
Square



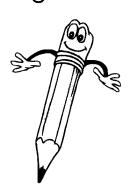
This is a square.

Which of these things have the shape of a square?



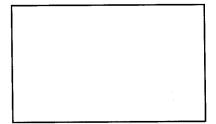


Trace out the square in dotted lines. Now draw a bigger square using the dots.



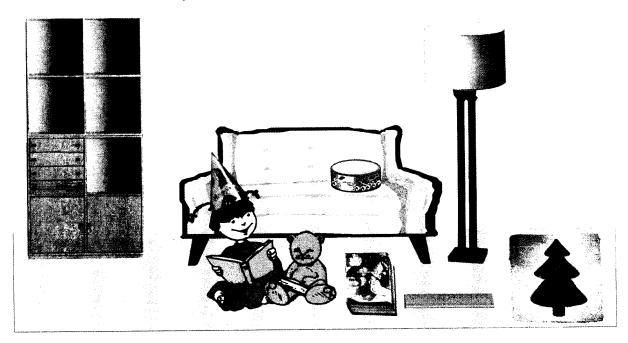


Rectangle



This is a rectangle.

Look at the picture below. Say which things have the shape of a rectangle.



In-Class Activity

Look around your classroom. Find the things that have shapes of a square or a rectangle. Write below the names of four things you have found and their shapes.

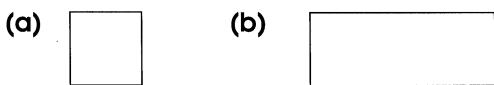
1.	2	
3.	4.	
		65



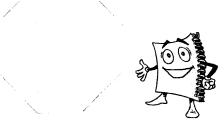
Company of the second s	
1. Look at the picture carefully.	
(a) How many squares are	
there?	
(b) How many rectangles	_
are there?	
(c) Do you see any other	
shapes in the picture?	
2. Trace out the rectangle in dotted lines.	
Then draw a square and a rectangle using	ľ
the dots.	,
• • - • - • • • • • • • • • • • • • • •	



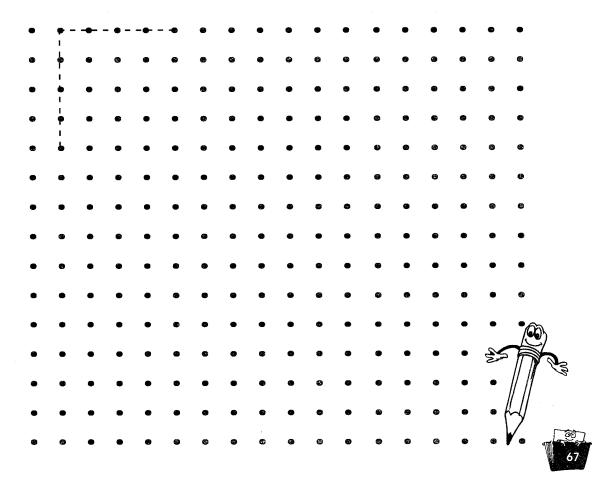




2. How many squares do you see in the picture?

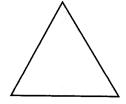


3. Complete the square by joining the dots. Then draw a bigger square next to it. Then draw a rectangle.



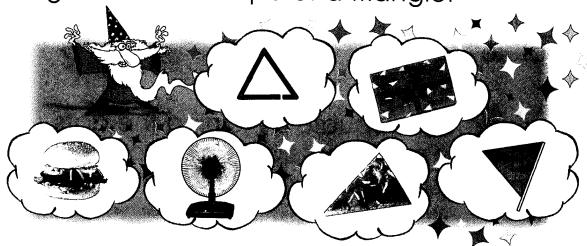


Triangle



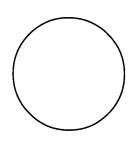
This is a triangle.

Look at the things below. Say which of these things have the shape of a triangle.



Circle

This is a circle.



Which of these things have the shape of a circle?

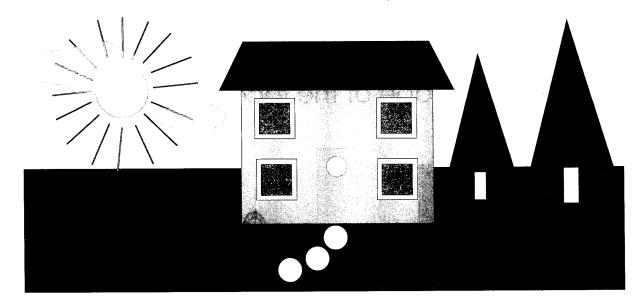
Can you name other things that have the shape of a circle?







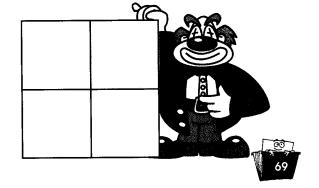
1. Look at the picture below. What shapes do you find? How many of each shape are there in the picture?



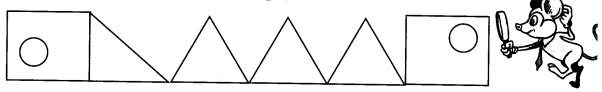
2. Draw 3 of each shape on coloured paper. Cut the shapes out. Make your own picture by pasting the cut-out shapes on drawing paper.



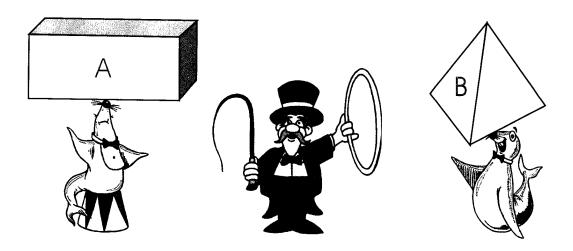
1. How many squares can you find in the picture?



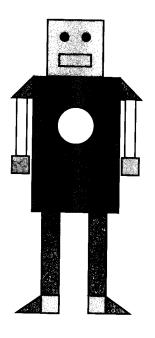
2. Look at the following picture.



- (a) How many triangles do you see?
- (b) Name the different shapes in the picture.
- 3. Name the shape of the faces marked A and B below.



4.



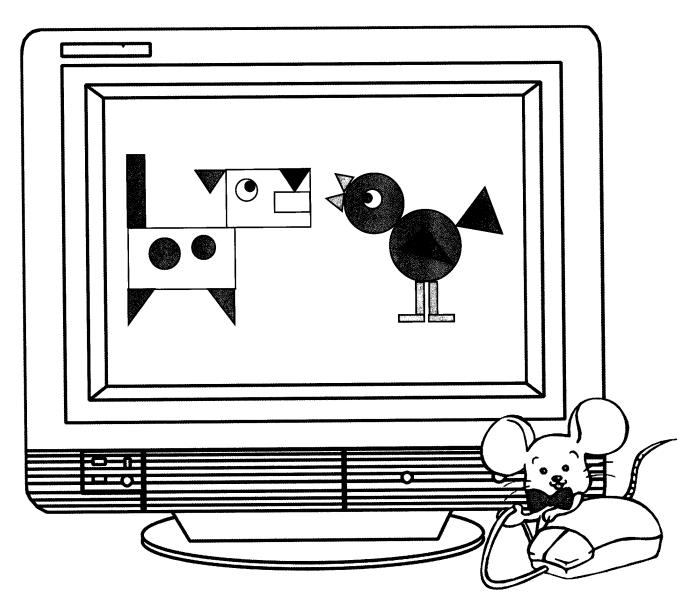
Look at Mr Robot. How many squares, rectangles, triangles, and circles do you see on him?

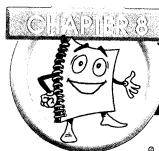


Fig. With Maths

Create an animal using the shapes that you have learnt. Then draw your animal using the computer.

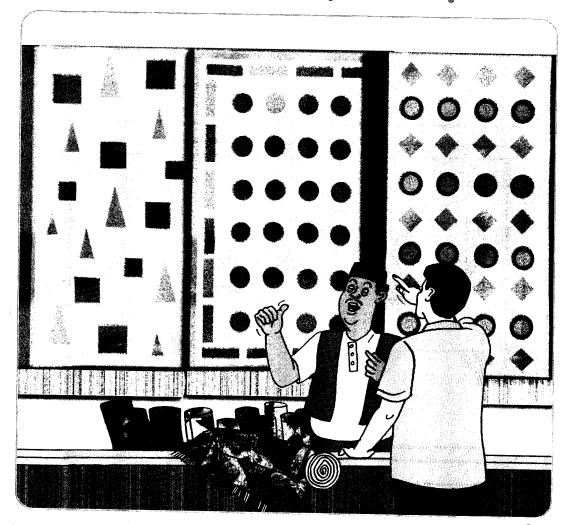
You may ask your teacher to help you.





PATTERNS

Hassan's Carpet Shop



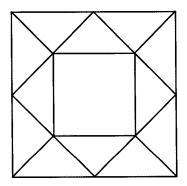
Look at the carpets in Hassan's shop. They have pretty patterns of shapes and colors.



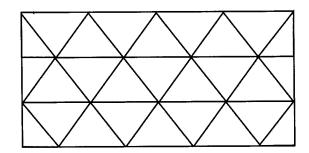


Patterns can be found on the tiles of floors.

Here are some shapes that fit together to form a pattern.



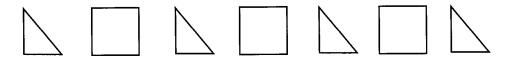
Can you see any patterns on the floor tiles of your home or school?





These are rows of shapes arranged in different patterns. What shapes and colors do you find here?

This pattern is arranged according to shape.



The pattern is triangle, square, triangle, ...



This pattern of circles is arranged according to size.
The pattern is small, smaller, smallest, small,
This pattern of rectangles is arranged according to color.
The pattern is green, green, pink, pink, green,
What comes next in the pattern above?
This is a pattern of squares arranged according to size and color.

What comes next in this pattern?





You need a worksheet for this activity.

Make 5 patterns with the shapes provided. Arrange the shapes according to

- (a) shape (b) size (c) color
- (d) shape and color (e) shape and size

Make the patterns by pasting the shapes in the space provided on the worksheet.



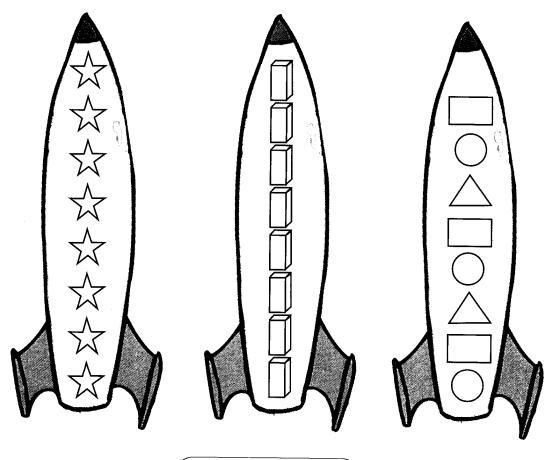
- 1. Complete the patterns below.
 - (a) According to shape and color.

\bigcup	\bigcup	 \bigcup	

(b) According to shape and size.



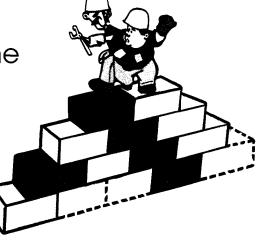
2. Use 3 colors to make color patterns.





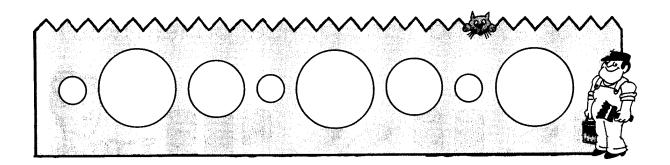
1. Draw the missing shape to complete the pattern.

2. Color the missing bricks to complete the pattern on the wall.



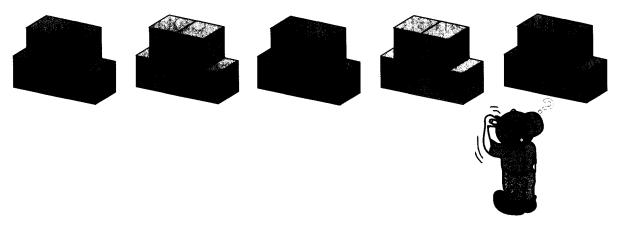


3. Color the circles to complete the pattern.

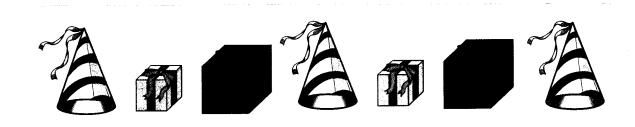




This is a pattern according to color.



This a pattern according to shape and size.



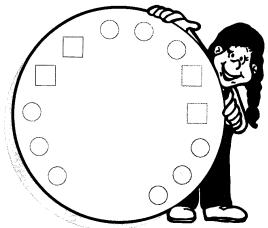


This is a pattern according to shape and color. What comes next in the pattern below? What is the number pattern here?



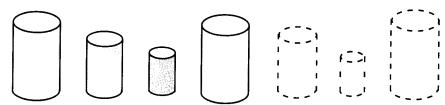
Li-Cass Action

- 1. Make patterns with 10 counters:
 - (a) according to shape and color;
 - (b) using different numbers of counters.





1. Color the objects to complete the pattern.





2. Complete the rainbow using the shapes given.





1. Complete the patterns below.



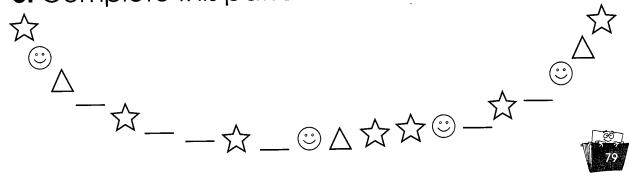


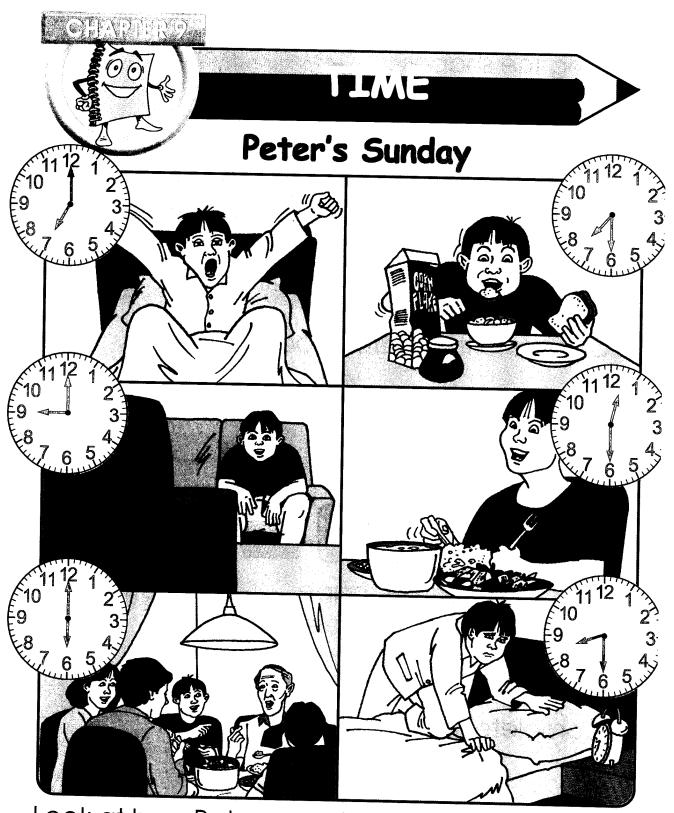


Color the correct shape from the box to complete the above pattern.



3. Complete this pattern.





Look at how Peter spends his Sunday. How do you plan your Sunday?

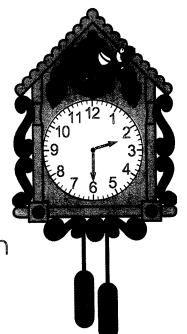
We use clocks and watches to tell the time.

Here are some clocks.



6 o'clock in the morning



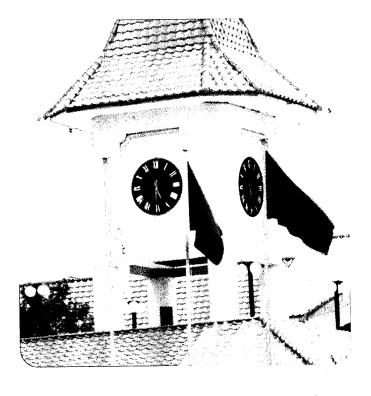




8 o'clock at night



10 o'clock at night



Half past 5 in the evening





Telling time

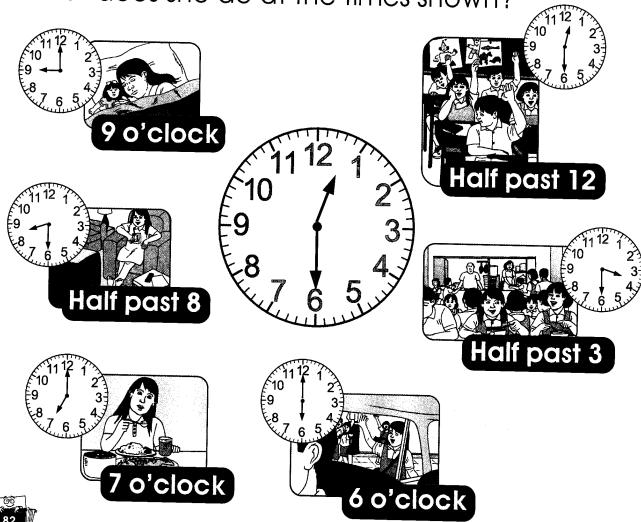
What time in the afternoon is Mary in class?
The time is half past 12.



What time in the evening does Mary leave school for home? The time is 6 o'clock.



How does Mary spend her day?
What does she do at the times shown?



Look at the 2 hands of the clock. The **hour** hand is shorter. The **minute** hand is longer.





When the hour hand is at 1 and the minute hand is at 12, we say the time is 1 o'clock.

When the hour hand is between 3 and 4, and the minute hand is at 6, we say the time is half past 3.



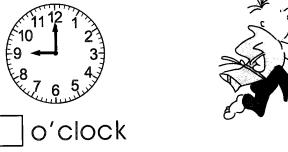


Tell the correct time.

1. Father starts work at this time in the morning.



2. Tom has to go to bed at this time at night.



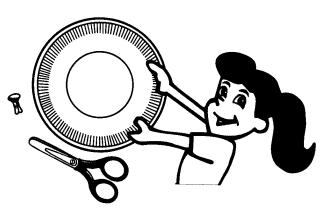




In-Class Activity

Things you will need:

- * A paper plate
- * A pair of scissors
- * A paper fastener



Write the numbers of a clock on the paper plate. Cut out two paper strips to make the clock hands.

Join the hands together at the centre of the clock. Tell your class about your favorite time of the day.

Practice 9A

1. Match the correct time to each show at the Fun Fair.



Puppet show half past 11



Fireworks 7 o'clock



Magic show half past 4



Music show 2 o'clock



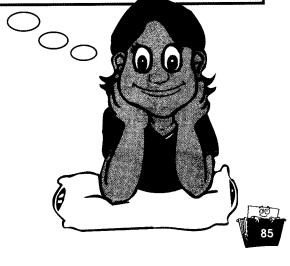


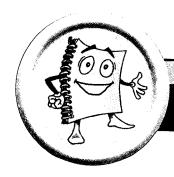




2. The chart below shows how Siti will spend her time next Saturday. Write the correct time for each of her activities.

Things To Do	Time
Go to the market with Mother.	10 2 9 3 8 7 6 5 7 6 5
Go swimming at the beach.	11 12 1 10 2 9 3 8 7 6 5
Have a picnic lunch.	11 12 1 10 2 9 3 8 7 6 5 4
Play games with family members.	11 12 1 10 2 9 3 8 7 6 5 4

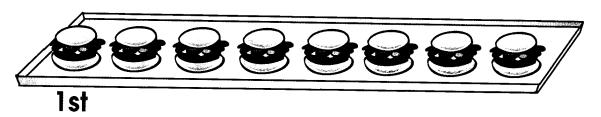




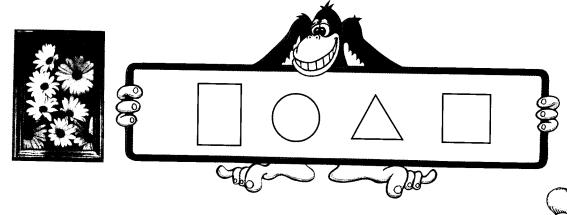
KEVLSLON Z



1. Cross out the sixth hamburger and circle the second one.



2. Color the shape that matches the picture.



3. Draw a cherry on the 10th pie from the right.





4. Match the clocks to the correct time.







Half past 12 2 o'clock

Half past 5

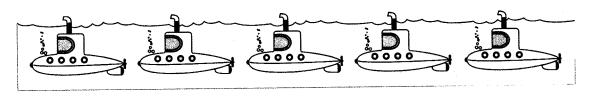
5. Count and write the number in words.



There are ___ butterflies in the picture.



6. Fill in the boxes with the correct answers.

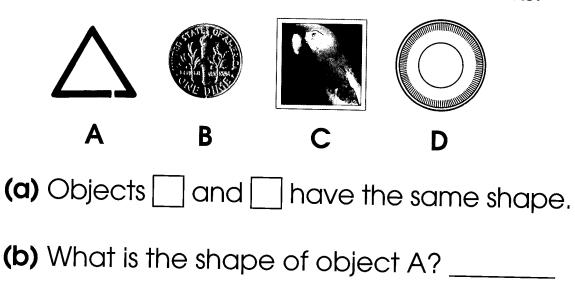


sixth

eighth

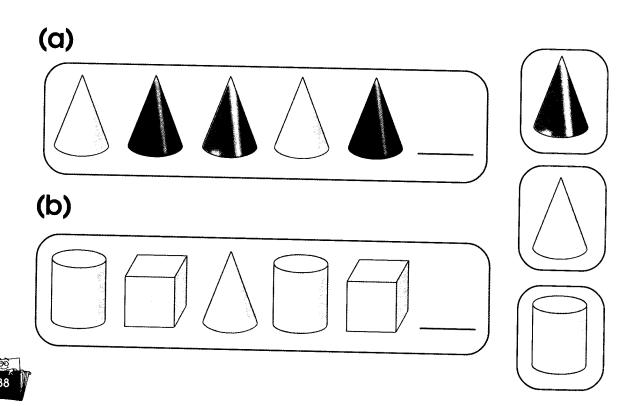


7. Look at these objects and fill in the blanks.



8. Complete these patterns by matching them to the correct shape.

(c) What is the shape of object C? _____



9. Write the correct time.

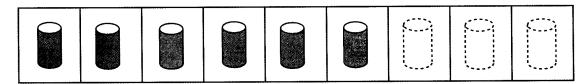
(a)



(b)



10. Color the shapes in dotted lines to complete the pattern below.

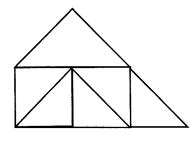


- 11. Fill in the blanks.
 - (a) 12 and 5 make
 - **(b)** 15 10 =



Exercise 3

12.



(a) How many triangles

can you find?

- (b) How many squares are there?
- 13. Draw the shape that comes next.









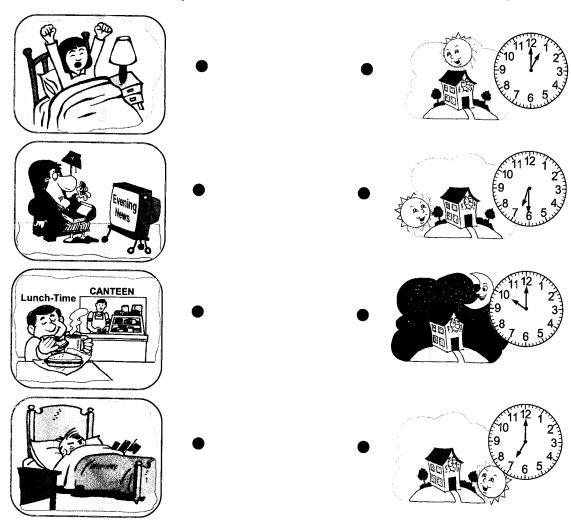




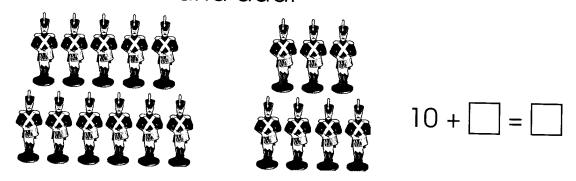




14. Match each picture to the correct time.



15. Make a ten and add.



16. Devi has 8 sweets and Minghua has 14 sweets. Who has fewer sweets? How many fewer?