

**Let's pave the way for learning and
Move Forward**

**Standard - 4
Mathematics**



**State Council of Educational Research and Training (SCERT), Kerala
2022**

Dear students,

The evaluation of the answer scripts of the First Terminal Examination 2022 and the classroom experiences shared by the teachers concerned, have brought to light the fact that our children have suffered some serious learning gap due to the non-availability of proper learning experiences as a result of the unprecedented situation created by the Covid Pandemic from 2019 to 2022. An activity book has been designed to assist children internalize the concepts which they ought to have mastered in the previous classes and with the intention to facilitate further learning. Necessary explanations and activities are included in the booklet to help children bridge the gap. It is hoped that this package will facilitate the learners for self-study or for studying with the help of their teachers and I wish them success in their endeavors to move forward with confidence.

Director
SCERT, Kerala

1. Among Four Digit Numbers - 1

Smallest four digit number :

1	0	0	0
---	---	---	---

 ▶ Thousand.

What are the digits in the ones place, tens place and hundreds place?

--

Write some four digit numbers like this. How do we read them?

Example :

1	0	0	0
---	---	---	---

 ▶ thousand

--	--	--	--

 ▶

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 ▶

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 ▶

Now replace the digit 0 in the ones place with other digits. Write some such numbers. How do we read them?

Example :

1	0	0	5
---	---	---	---

 ▶ One thousand five

--	--	--	--

 ▶

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 ▶

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 ▶

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 ▶

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 ▶

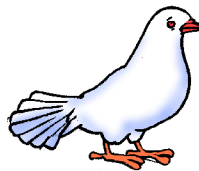
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 ▶

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 ▶


Friends, to set the number arrange any one of the number strips from this group to get the number, right?

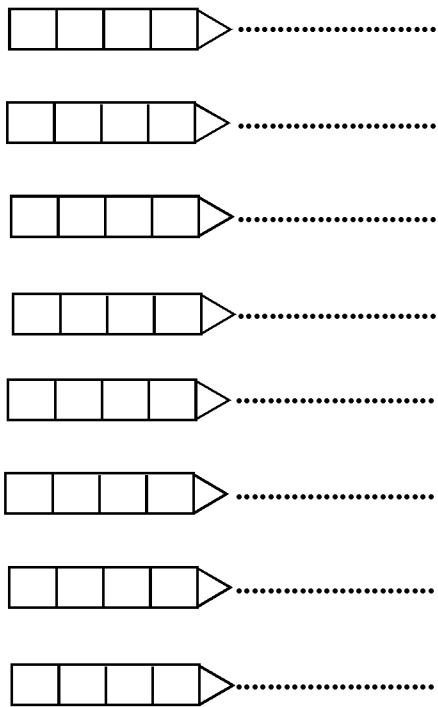
1 ▶	2 ▶
3 ▶	4 ▶
5 ▶	6 ▶
7 ▶	8 ▶
9 ▶	

- Now, we can replace the 0's from ones place and tens place by other digits and write four digit numbers.

Example :

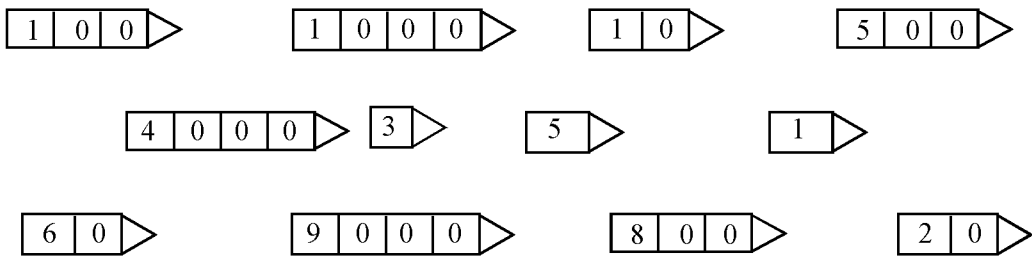


9 | 0 | 4 | 8 → Nine thousand forty eight



1	3	5
2	4	6
7	9	8
1 0	4 0	7 0
2 0	5 0	8 0
3 0	6 0	9 0

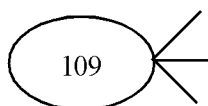
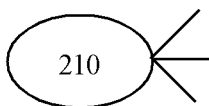
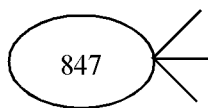
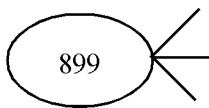
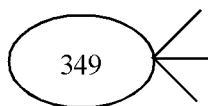
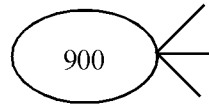
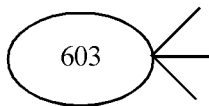
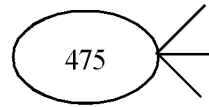
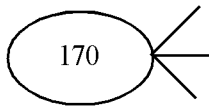
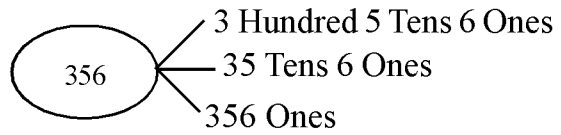
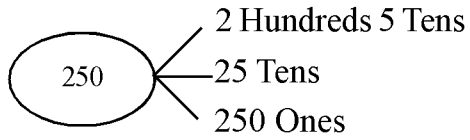
Choose two number strips and form a two digit number joining them.



Choose four number cards and form a four digit number by joining them.

Among Four Digit Numbers - 2

Observe the examples and write the following numbers as mentioned.



Among Four Digit Numbers - 3

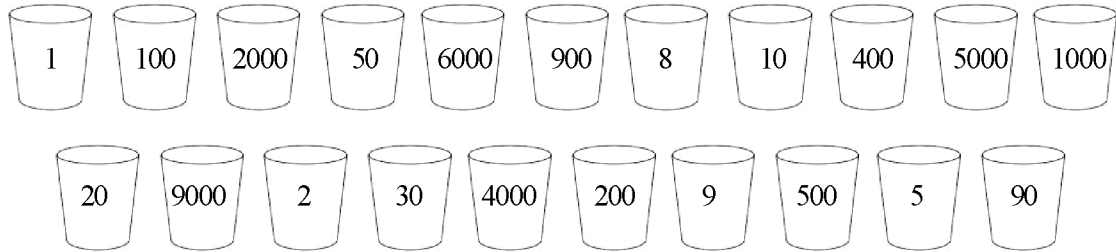
Write the numbers

- 3 Hundreds 8 Tens 7 Ones
- 6 Hundreds 4 Tens
- 3 Hundreds 2 Tens 6 Ones
- 6 Hundreds 25 Tens
- 9 Hundreds 4 Ones
- 5 Hundreds 7 Tens
- 1 Hundred 7 Tens
- 9 Hundreds 6 Tens 3 Ones
- 2 Hundreds 95 Ones
- 1 Hundred 70 Ones

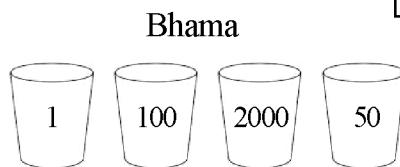
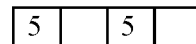
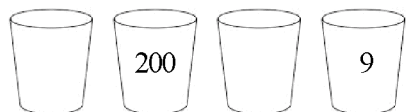
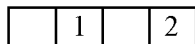
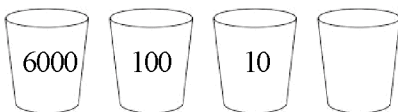
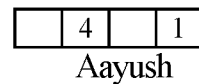
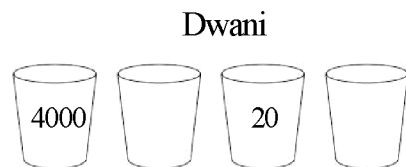
- 1. Write the largest number
- 2. Write the smallest number
- 3. What is the difference between the largest number and the smallest number?

Among Four Digit Numbers - 4

Let's arrange the glasses and win.



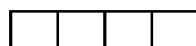
Find the score obtained by each student in the game. The student with the largest number is the winner.



- Who is the winner?
- For getting the largest four digit number, select the glasses and write the numbers on the classes.

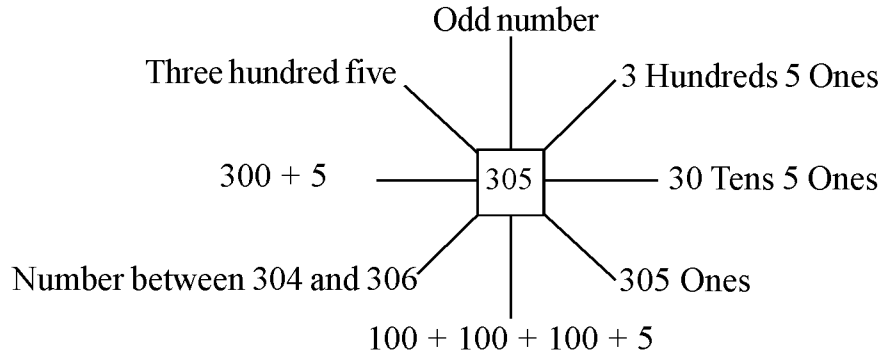


- Mayookh obtained the smallest number and the digits are the same. What is the number?



Among Four Digit Numbers - 5

Let's find and colour them.



Three numbers are written in different ways. Find and give same colour to them.

413 97 Tens

600 + 8 900 + 70

Odd number Six hundred eight

970 608

 9 Hundreds 7 Tens

400 + 13 Four Hundred Thirteen

6 Hundreds 8 Ones 400 + 10 + 3 4 Hundreds 13 Ones

Nine hundred seventy 60 Tens 8 Ones

Among Four Digit Numbers - 6

Right and Wrong

Amount collected by different groups for conducting Sastrolsvam is given below. Observe the table and correct it if the amount mentioned is wrong. Complete the table.

Group	2000 No. Rupees	500 Rupees	200 Rupees	100 Rupees	50 Rupees	10 Rupees	5	Amount Collected
1	1	2		5		3	1	3035
2	2	1	1	3	5	2	2	5280
3	-	3	5	6	3	5	4	
4	1	-	4	2	10			
5								3965

Find the sum as below.

$$\begin{aligned}
 \text{Group 1} &= 2000 + 500 + 500 + 100 + 100 + 100 + 100 + 100 + 10 + 10 + 10 + 5 \\
 &= 2000 + 1000 + 500 + 35 \\
 &= 3000 + 535 \\
 &= 3535
 \end{aligned}$$

Let's find another way:

Amount collected by the second group is 5280 rupees.

Find other different ways for representing the same amount.

Write any two ways for representing 5280 rupees.

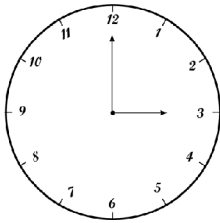
Make different questions based on the above table.

eg: How many 2000 rupees notes were collected?

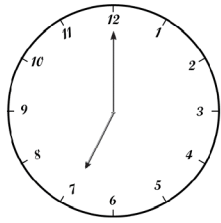
Answer :

2. Wheel of Time - 1

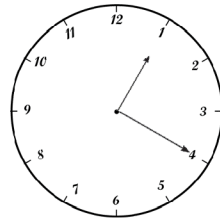
What is the time?



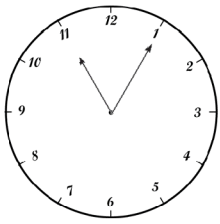
3:00



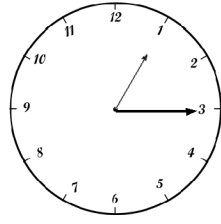
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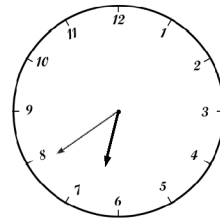
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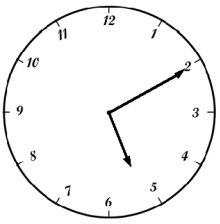
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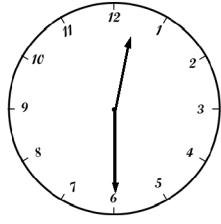
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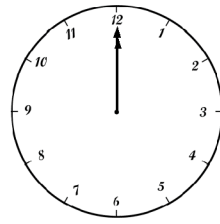
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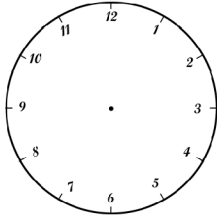
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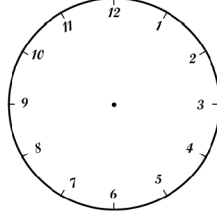
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Wheel of Time - 2

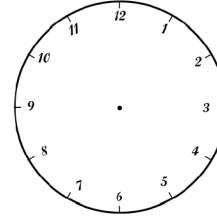
Draw Needle



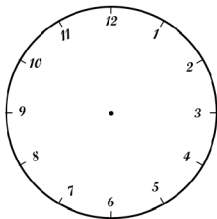
4:00



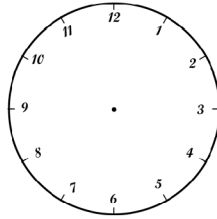
8:00



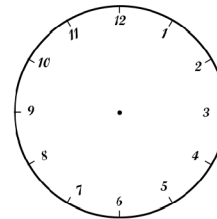
7:15



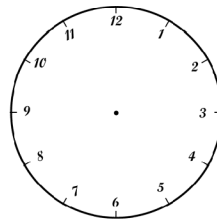
4:30



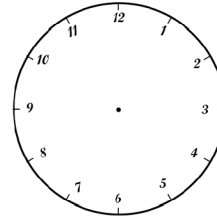
9:45



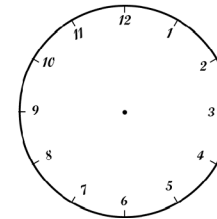
10:50



4:20



3:40

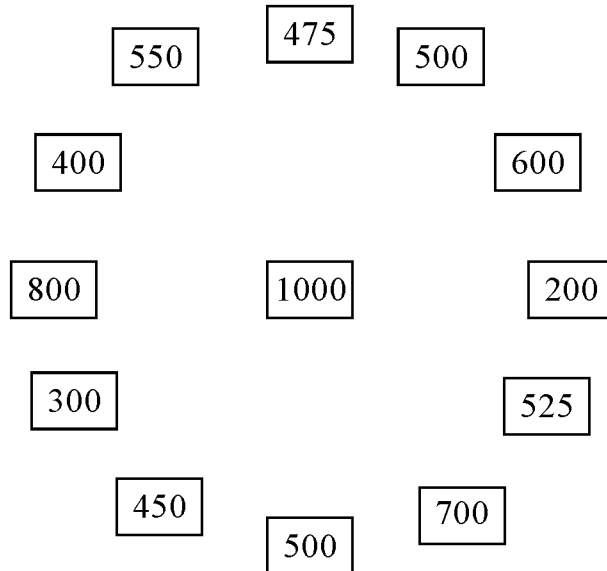


1:05

3. Joining thousands - 1

What are joined...

Find out two numbers so that their sum is the number 1000 which is in the central box.



The way I found out

Joining thousands - 2

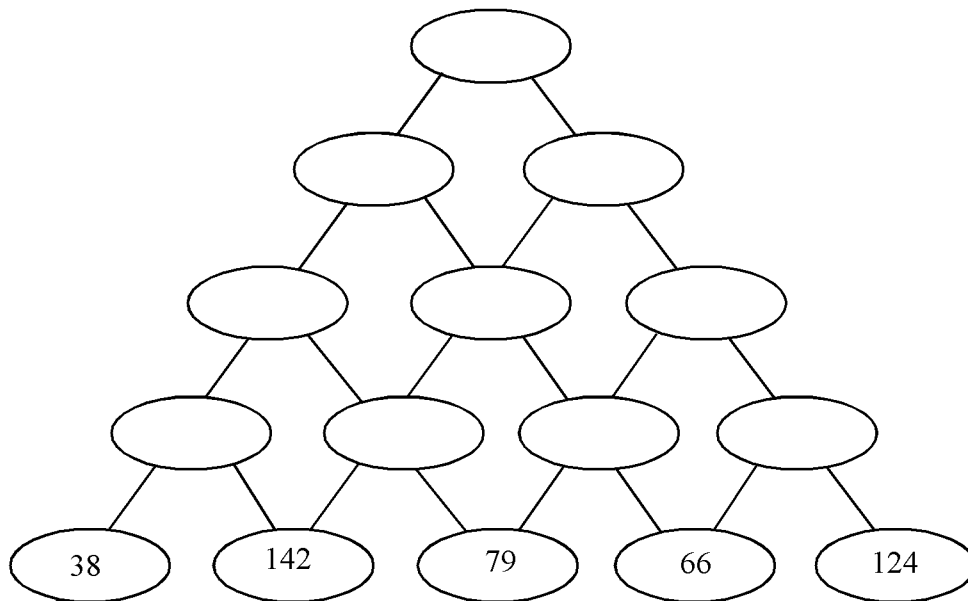
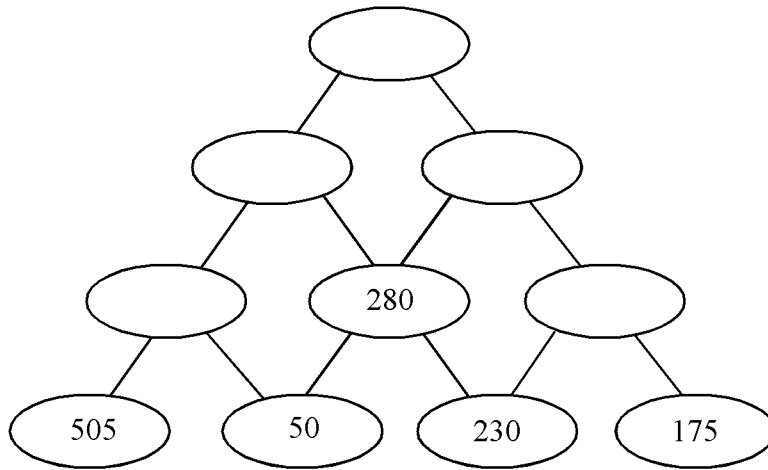
Let's draw and join

Join each sum with the correct answer.

$500 + 700$	Between 1100 and 1200
$850 + 450$	$700 + 100 + 13$
$308 + 607$	$800 + 400 + 50 + 50$
$273 + 916$	12 Hundreds
$456 + 321$	9 Hundreds 15 Ones
$284 + 529$	Between 700 and 800

Joining thousands - 3

Let's find the sum and win.



Now draw a similar one in your note book.

4. More and Less - 1

Celebrating Birthday

Alan Raj bought a shirt for his birthday. He bought the shirt which is least priced after discount. Find the shirt Alan Raj selected.

A



Price 899 rupees

Discount 254 rupees

B



Price 895 rupees

Discount 265 rupees

C



Price 980 rupees

Discount 356 rupees

D



Price 905 rupees

Discount 380 rupees

E



Price 989 rupees

Discount 354 rupees

F



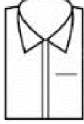






Price 900 rupees

Discount 365 rupees

Write the calculation done by you.

More and Less - 2

Let's find the discount. Complete the table.

Item	Original price	Reduced Price	Discount
	305	238	
	575	492	
	1895	1352	
	3762	2545	
	7775	2639	
	1049	259	
	1199	369	

5. Drawing Shapes - 1

Find and Write

Observe the figure and answer the following.



Figure - 1

What is the name for the figure?

How many corners?

How many sides?

Measure the length of each side using a ruler and write.

Now say, what is the relation between the opposite sides?

What is the total length of all its sides?

It is the perimeter of the rectangle.

Now we want to paste eerkil bits along the sides of this rectangle. What is the total

length of the eerkil bits?

The way I found out.



If all the sides of a rectangle are equal, then it is a square.

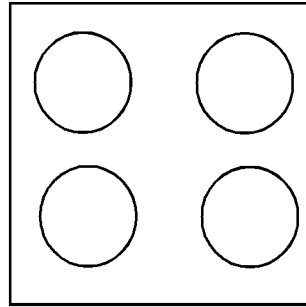


Figure - 2

What are the shapes of figure 2?

Write their names:

--	--

The number of sides of the outer figure:

--

The length of one side of the outer figure:

--

The total length of all its sides:

--

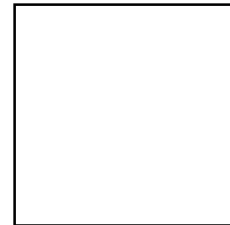
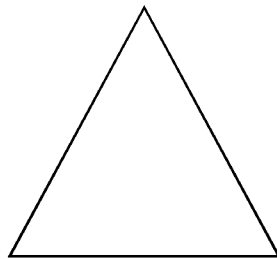
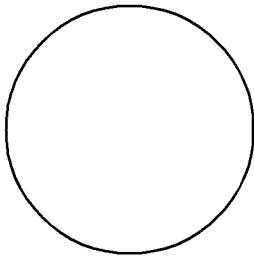
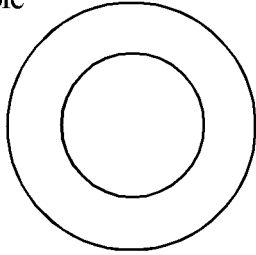
What is the name of the rectangle with all sides equal?

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Drawing Shapes - 2

Figure inside

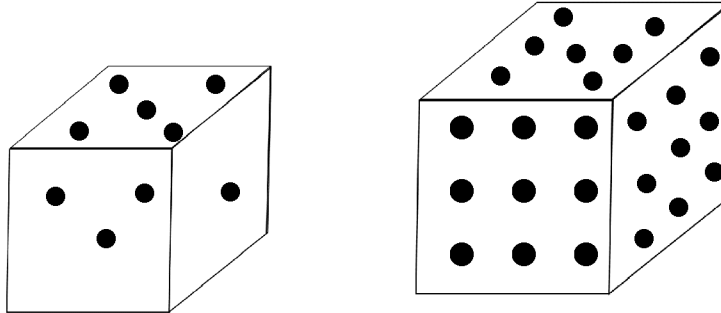
Example



- ? Now draw rectangles of different measures. Make a square with eerkil bits of length 5 centimetres.

6. Adding without Adding - 1

Play with a dice



Riya and her friends are playing with two dice.

See the numbers Riya got.

5 and 7

The product of these numbers is her score.

What is her score?

$5 \times 7 =$

Find the score of each player. Who is the winner?

--

Name	Dice 1	Dice 2	Total Score
Shawin	6	5	$6 \times 5 = 30$
Basil	4	8	$4 \times 8 =$
Sree Nanda	3	9	
Nidhun	5	7	
Amal Dev	6	9	
Diya	5	8	
Sharon	6	7	

Winner :

Play this game with your friends

Adding without Adding - 2

Let's colour and multiply

Observe the table. Colour the suitable number of columns equal to the operations given below. Complete it by writing the correct answers.

7×3	3×4	5×9	3×1	4×6	3×12	4×8	3×7	8×5
21								

3	12	9	7	5	8	4	5
7	1	3	5	8	6	9	12
5	9	6	4	3	5	7	1
6	3	8	5	12	4	3	9
5	8	1	9	3	6	5	3

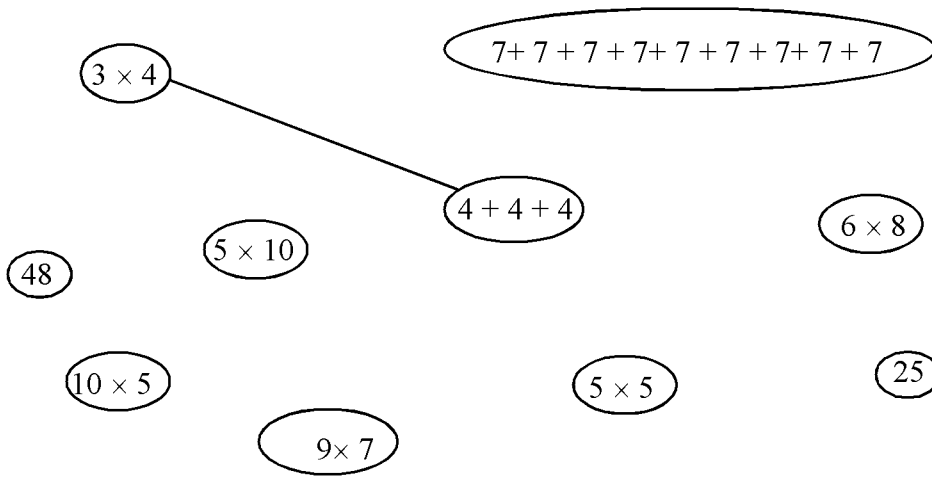
Adding without Adding - 3

Complete the table:

$5 + 5 + 5 + 5$	4×5	20
$3 + 3$	2×3	
$2 + 2 + 2 + 2 + 2 + 2$		
	3×7	
$8 + 8 + 8 + 8 + 8 + 8$		48

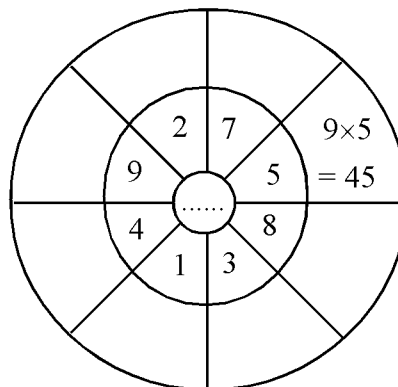
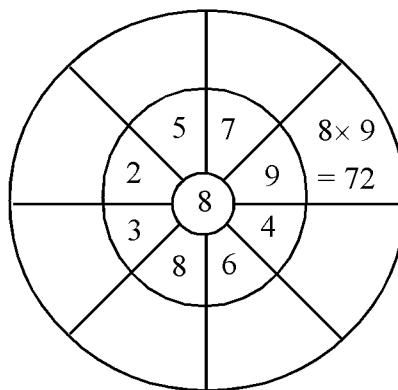
Adding without Adding - 4

Find the friends

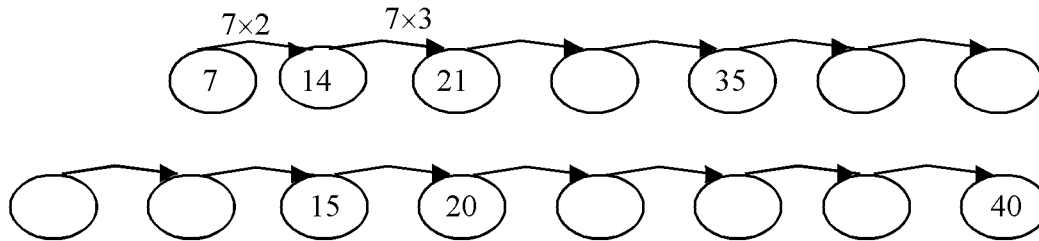


Adding without Adding - 5

Complete the number wheel.

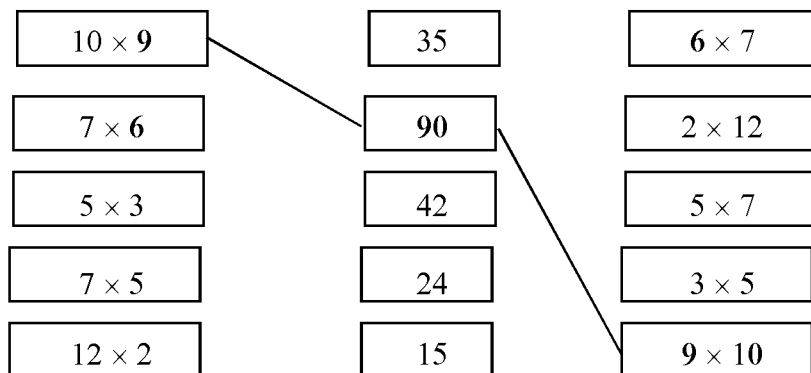


Adding without Adding - 6



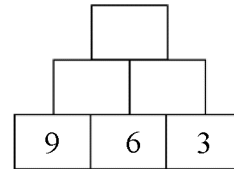
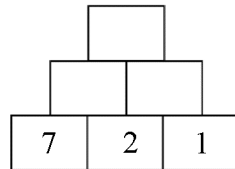
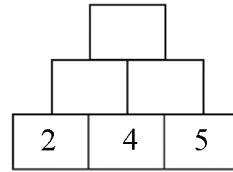
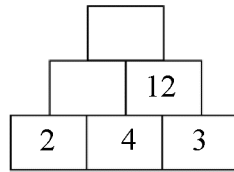
Adding without Adding - 7

Find the friends of the middle number from the left and right. Join them.



Adding without Adding - 8

Complete the number pyramid.



Do multiplication and complete the table:

x	3	8	4
5	15		
2		16	
3			12

x	4	2	8
8			
6			
4			

x	7	3	8
9			
8			
6			

x	5	4	7
7			
3			
10			

x	3
21	
27	
12	

x	6
12	
36	
20	

x	8
28	
49	
56	

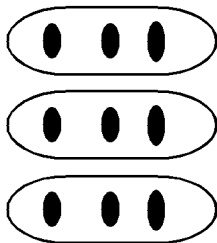
x	7
35	
15	
40	

x	5
20	
35	
46	

7. Equal Shares and What is Left - 1

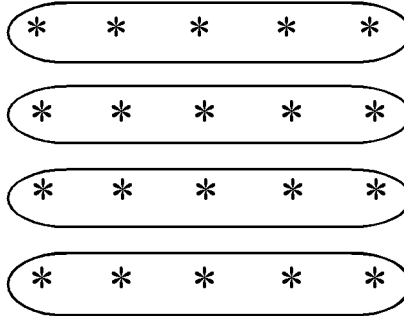
Let's divide and multiply.

Complete in the suitable way:



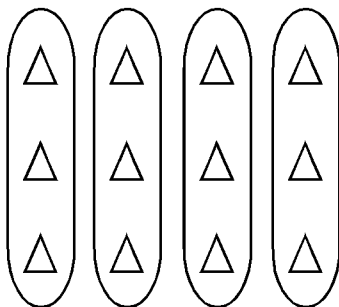
$$9 \div 3 = 3$$

$$3 \times 3 = 9$$



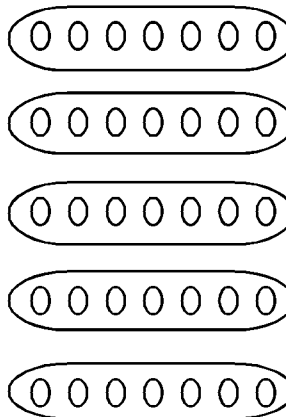
$$20 \div 5 = \text{-----}$$

$$\text{-----} \times 5 = 20$$



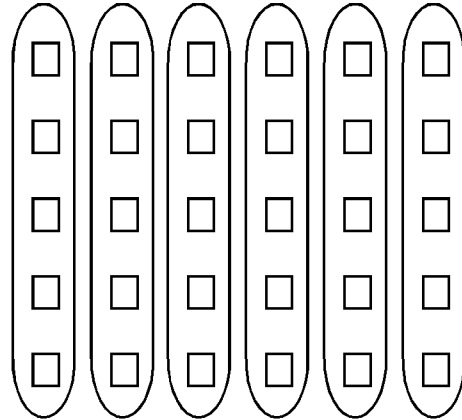
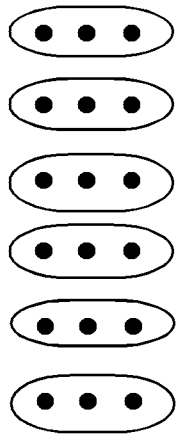
$$\text{-----} \div 3 = \text{-----}$$

$$\text{-----} \times 3 = \text{-----}$$



$$\text{-----} \div \text{-----} = \text{-----}$$

$$\text{-----} \times \text{-----} = \text{-----}$$

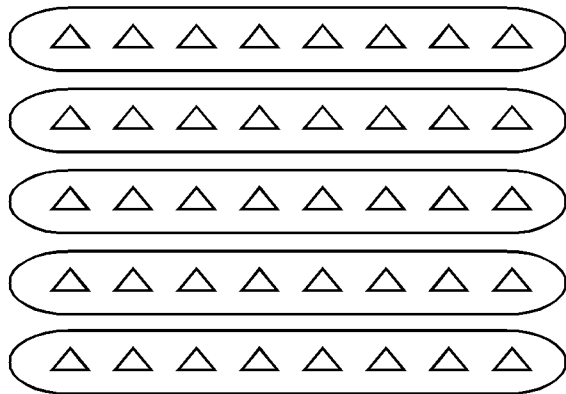
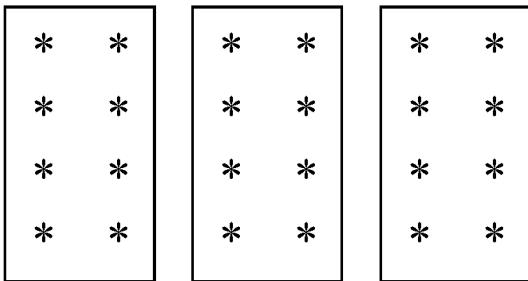


$$\text{---} \div \text{---} = \text{---}$$

$$\text{---} \div \text{---} = \text{---}$$

$$\text{---} \times \text{---} = \text{---}$$

$$\text{---} \times \text{---} = \text{---}$$



$$\text{---} \div \text{---} = \text{---}$$

$$\text{---} \div \text{---} = \text{---}$$

$$\text{---} \times \text{---} = \text{---}$$

$$\text{---} \times \text{---} = \text{---}$$

Equal Shares and What is Left - 2

Manian's shop

Manian arranged 24 soaps of a particular company in his shop in rows.

Soaps were arranged in 4 rows. What is the number of soaps in each row?

What about if it is arranged in 6 rows?

If each row contains 8 soaps, then the number of rows is :

If half the total soaps are arranged in one row, then the number of soaps in one row is

Equal Shares and What is Left - 3

Let's colour them.

Find equal groups from the following.

Give different colours to equal groups.

$9 \div 3$	$25 \div 5$	$16 \div 4$
$100 \div 10$	$40 \div 8$	$20 \div 2$
$10 \div 5$	$30 \div 3$	$24 \div 6$
		$28 \div 7$
$50 \div 5$	$12 \div 4$	
		$8 \div 4$
$18 \div 6$		$15 \div 3$

3	$9 \div 3$
	$18 \div 6$
	$12 \div 4$

4	

5	

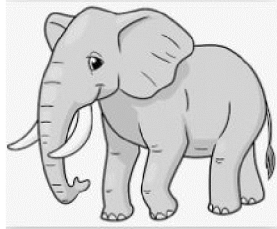
10	

2	

Equal Shares and What is Left - 4

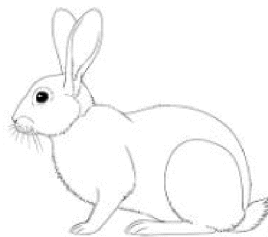
Who is the winner?

Let's find the winner in the competition.



Point

$$\textcircled{18} \xrightarrow{+3} \textcircled{21} \xrightarrow{-1} \textcircled{20} \xrightarrow{\times 2} \textcircled{40} \xrightarrow{\div 10} \boxed{4}$$



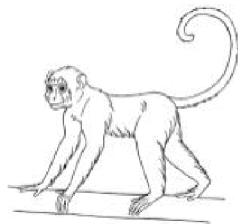
Point

$$\textcircled{5} \xrightarrow{+2} \textcircled{\quad} \xrightarrow{-3} \textcircled{\quad} \xrightarrow{\times 5} \textcircled{\quad} \xrightarrow{\div 2} \boxed{\quad}$$



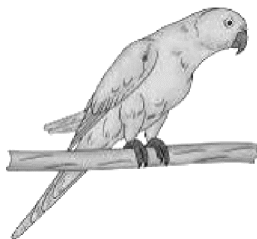
Point

$$\textcircled{12} \xrightarrow{\times 2} \textcircled{\quad} \xrightarrow{-9} \textcircled{\quad} \xrightarrow{\div 5} \textcircled{\quad} \xrightarrow{\times 4} \boxed{\quad}$$



Point

$$\textcircled{\quad} \xrightarrow{+5} \textcircled{14} \xrightarrow{-4} \textcircled{\quad} \xrightarrow{\div 2} \textcircled{\quad} \xrightarrow{\times 5} \boxed{\quad}$$



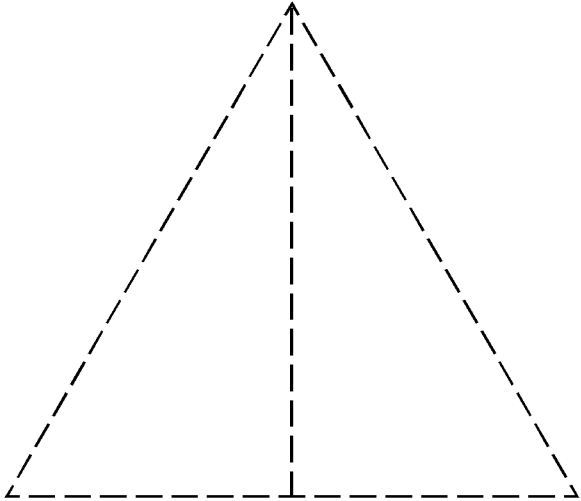
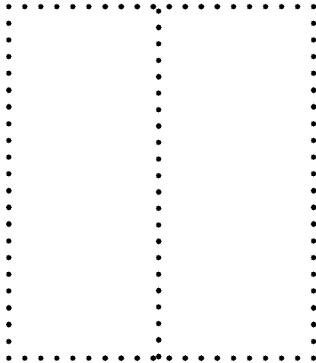
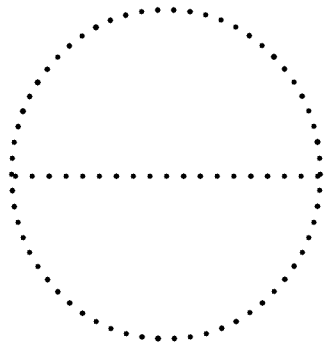
Point

$$\textcircled{\quad} \xrightarrow{\times 3} \textcircled{\quad} \xrightarrow{\div 5} \textcircled{\quad} \xrightarrow{-1} \textcircled{\quad} \xrightarrow{+2} \boxed{7}$$

Winner of the competition :

Score of the winner :

8. Half and Quarter - 1

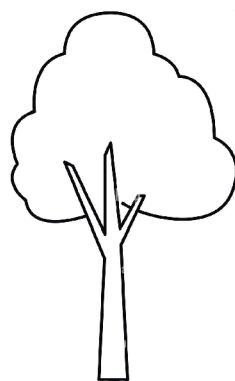
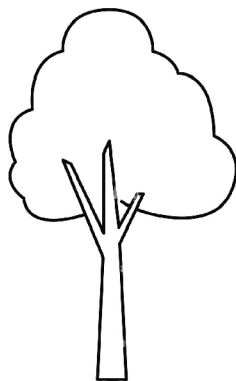
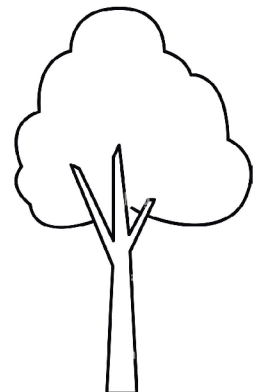
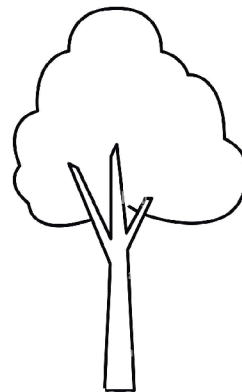
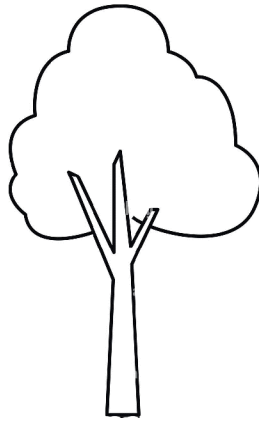
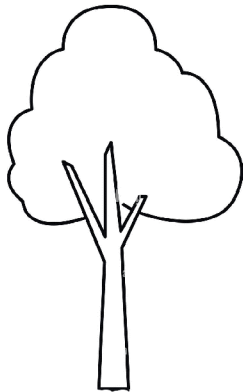
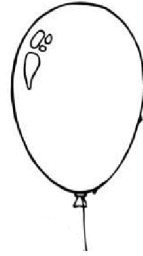
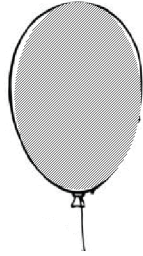
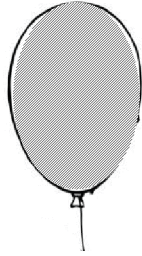


See the picture. Complete the figure by drawing through the dots. Give colour to half the picture.

Now draw different shapes using convenient measure. Give colour to half the picture.

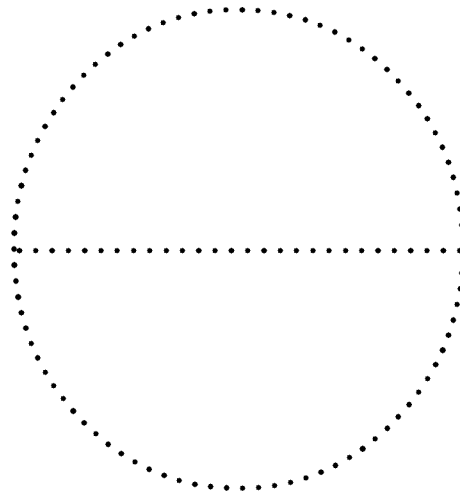
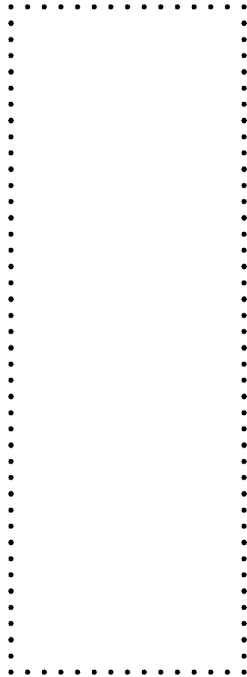
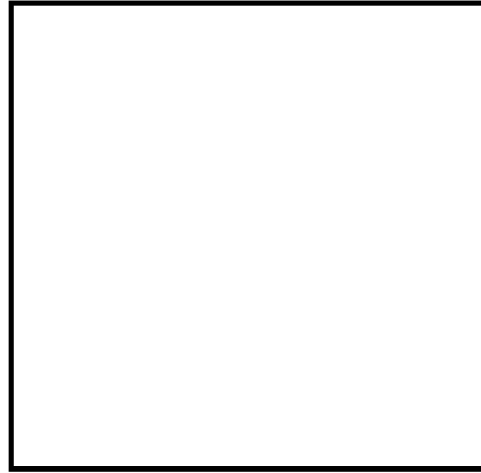
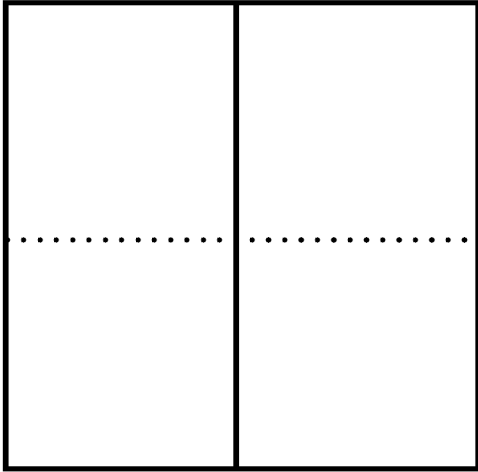
Half and Quarter - 2

Give colour to half the figures shown below.



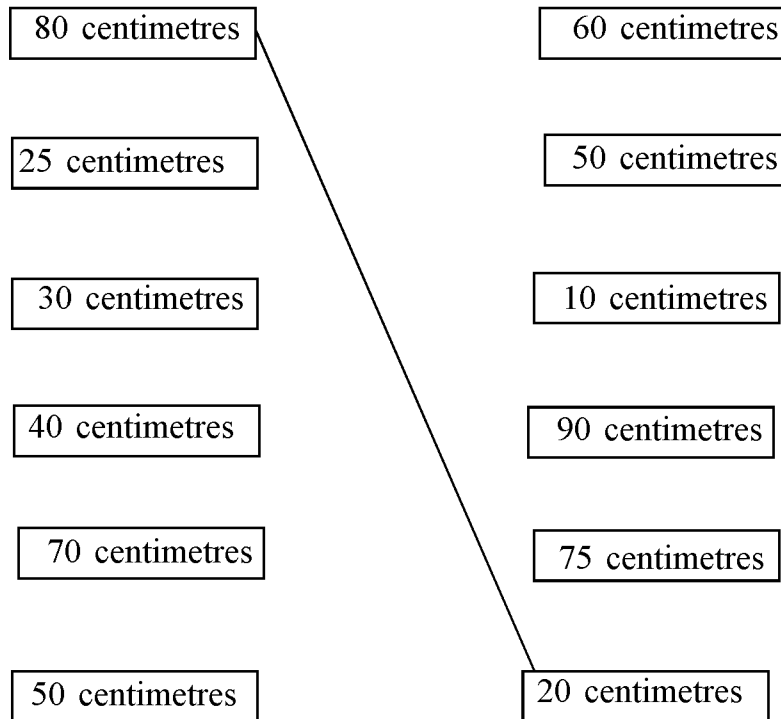
Half and Quarter - 3

Let's divide the figures given below into four equal parts.



9. Length and Weight - 1

1 metre long ribbons were divided into 2 parts. Find the parts of the same ribbon and give same colour to them.



1 metre = 100 centimetres

Length and Weight - 2

Let's make equal

Complete the following to make the weight equal.

1 Kilogram = 1000 Gram 2 Kilogram = --- Gram

--- Kilogram = 4000 Gram

200 Gram + --- Gram = 1 Kilogram

1500 Gram + --- Gram = 2 Kilogram

300 Gram + 700 Gram = --- Kilogram

--- Kilogram = 2300 gram + 700 gram

1 Kilogram + --- Gram = 1400 Gram

Length and Weight - 3

Weight

Let's guess, then measure

Visit your school kitchen and guess the weights of different packets kept there. Find their correct weights with your teacher's help.

Item	Weight (Guess)	Actual weight

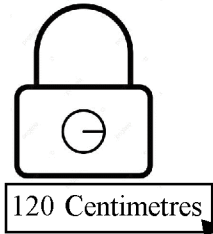
From your school, collect small stones of different sizes. Guess the weight of each stone. Try to find their actual weight.

Stone	Weight (Guess)	Actual Weight
1		
2		
3		
4		
5		
6		
7		
8		

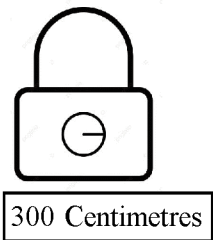
Length and Weight - 4

Let's open the lock.

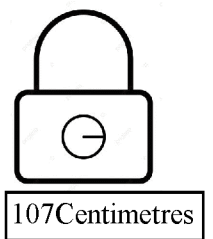
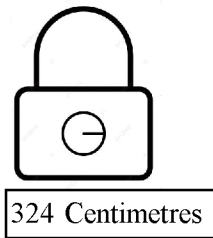
Find the suitable key for the lock.



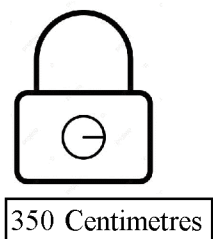
3 Metres
24 Centimetres



3 Metres
50 Centimetres



3 Metres



1 Metre
7 Centimetres

1 Metre = 100 Centimetres

10. Data Collection - 1

In my school

No.	Item	Yes	No
1	Well		
2	Rain water harvesting		
3	Vegetable garden		
4	Garden		
5	Compound wall		
6	Toilet		
7	Reading corner		
8	Science corner		
9	Science lab		
10	Maths lab		
11	Laptop		
12	Projects		
13	Play ground		
14	Library		
15	Children's park		

Completed it, right?

Now prepare a similar table using the facilities available in your house.

Data Collection - 2

Complete the table by finding the number of boys and girls in each class in your school.

No.	Class	Division	No. of girls	No. of boys
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Number of divisions in the school

Total number of students in my school

Which is more? Boys or Girls?

By how much?

Make more questions from the table.

Example :

? In which class, the number of boys is more?

?

?