Look and Understand.

1– digit numbers – numbers 1 – 9
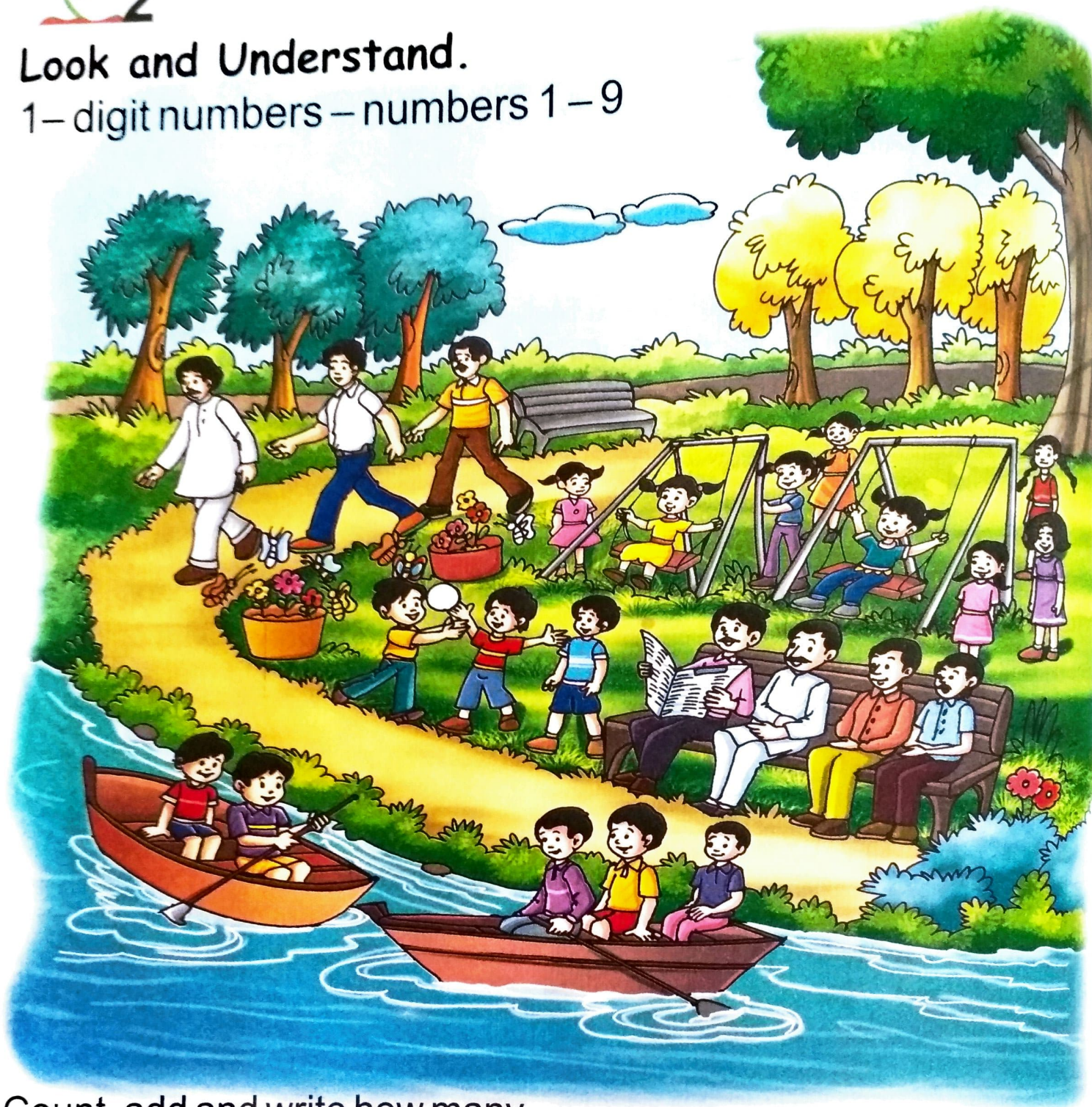
Count, add and write how many

4	Green trees	+	3	non green trees	=	7	trees.
2	Orange butterflies	+	1	yellow butterflies	=	3	butterflies.
4	People on one bench	+	0	people on other bench	=	4	people.
3	People in one boat	+	2	people in other boats	=	5	people.
2	Girls on the swings	+	6	girls waiting	=	8	girls.
3	Boys playing with ball	+	6	girls not on swings	=	9	children.

Concept of Addition

Addition means putting things together
We use '+' sign to add two numbers.
We use '=' sign to show equal to or the same as.
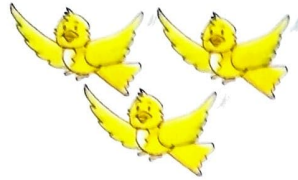The number we get after addition is **sum**.
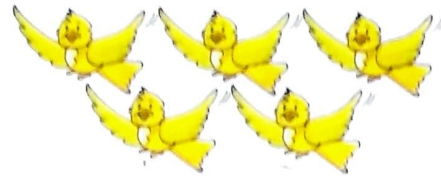
Example:

2 and 3 is 5

2 + 3 = 5

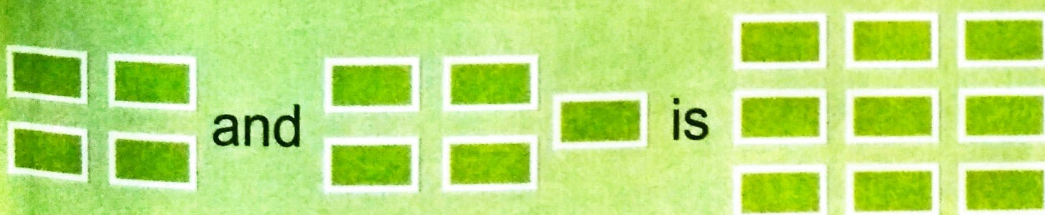Count and write how many in all.

and is

$2 + 3 = 5$

and is

$3 + 4 = 7$

and is

$5 + 1 = 6$

and is

$4 + 5 = 9$

We use '+' instead of 'and'
We use '=' instead of 'is'

Adding Zero:

Pranav has two flowers

Vinni gives him nothing

Pranav still has two flowers

$2 + 0 = 2$

When we add zero to a number we get the same number.

$4 + 0 = 4$

Add and fill in the boxes

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

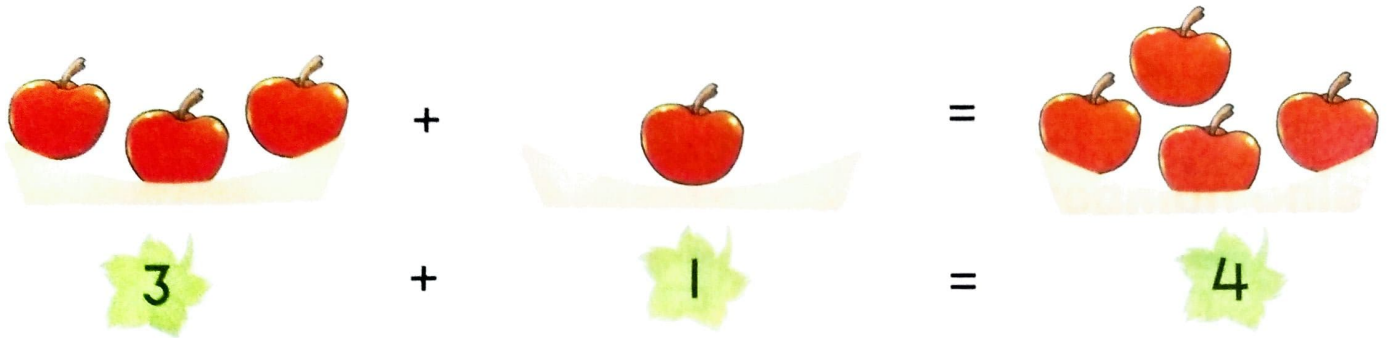# Adding One:

$2 + 1 = 3$

Ritika has two sandwiches.

Vishu gives her one more

Ritika now has three sandwiches

When we add one to a number we get the number just after it.

3 + 1 = 4

Add and fill in the boxes

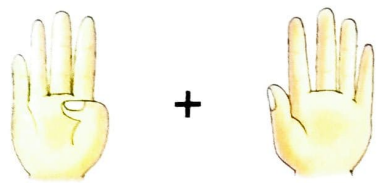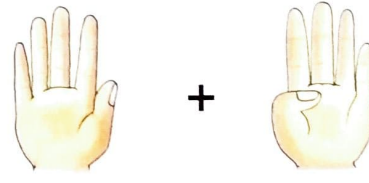| 4 + 1 = 5 | 5 + 1 = 6 | 3 + 1 = 4 |
| 9 + 1 = 10 | 6 + 1 = 7 | 1 + 1 = 2 |
| 2 + 1 = 3 | 8 + 1 = 9 | 7 + 1 = 8 |

Order in Addition

4 + 5 = 9 | 5 + 4 = 9

When we change the order of the numbers their sum remains the same.

Find the sum

3 + 5 = 8
5 + 3 = 8

2 + 6 = 8
6 + 2 = 8

8 + 1 = 9
1 + 8 = 9

7 + 1 = 8
1 + 7 = 8

4 + 5 = 9
5 + 4 = 9

2 + 3 = 5
3 + 2 = 5

Forward counting for addition

Using number strip

0 1 2 3 4 5 6 7 8 9 10
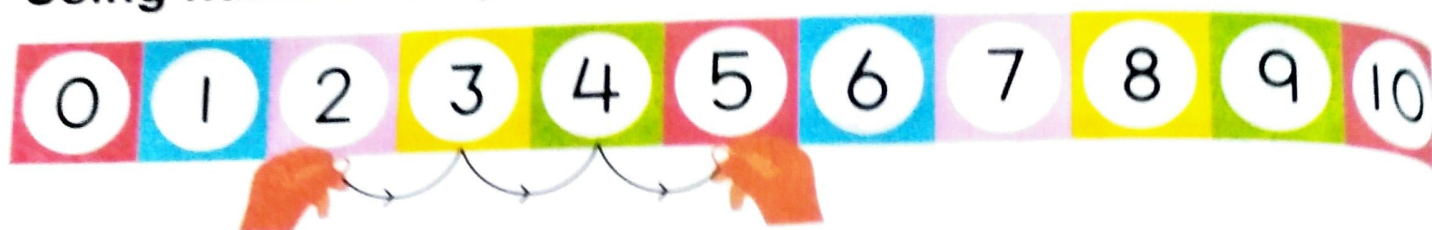
Out of the two numbers to be added—

1. Start with the first number.

2. Move forward as many boxes as the second number.

Example: Add 2 and 3 by counting forward using number strip.

Solution: Start with 2. Put the 👉 at 2

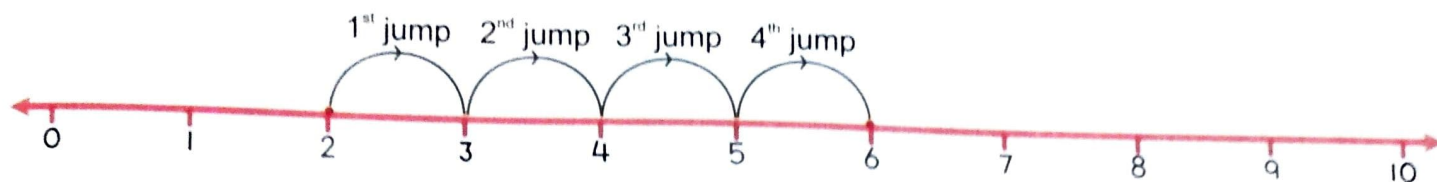: Then move the finger 3 boxes forward

: You reach at 5

So, 2 + 3 = 5

Fill in the boxes by counting on the number strip.

1 + 3 = 4

5 + 4 = 9

2 + 7 = 9

8 + 1 = 9

3 + 4 = 7

2 + 4 = 6

6 + 1 = 7

5 + 2 = 7

7 + 1 = 8

4 + 5 = 9

Using number line

Out of the two numbers to be added.

1. Start with the first number.
2. Move forward by taking as many jumps as the second number.

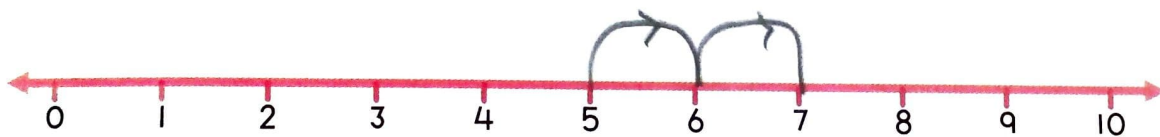*Example:* Add 2 and 4 using number line
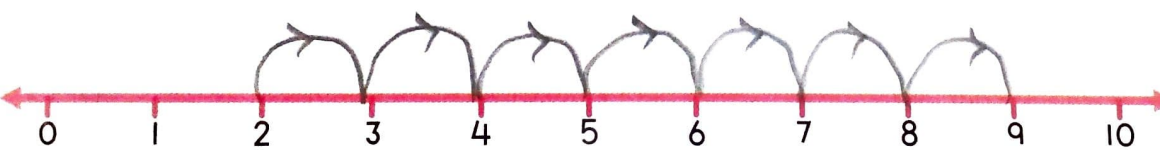
Solution: Start with 2

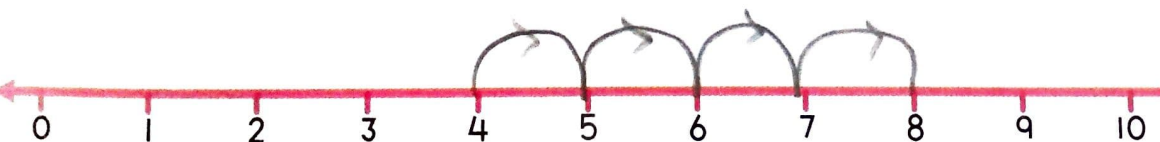 : Take 4 jumps forward
  : You reach at 6

So,   2 + 4 = 6

Add the following using number line.

$5 + 2 = 7$
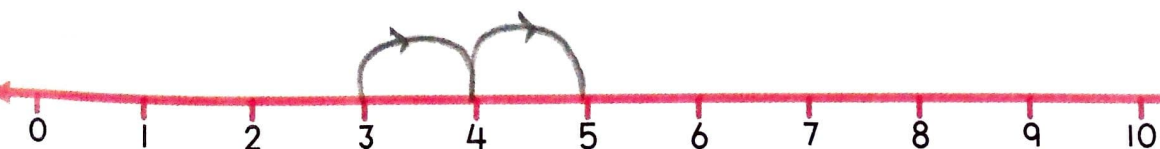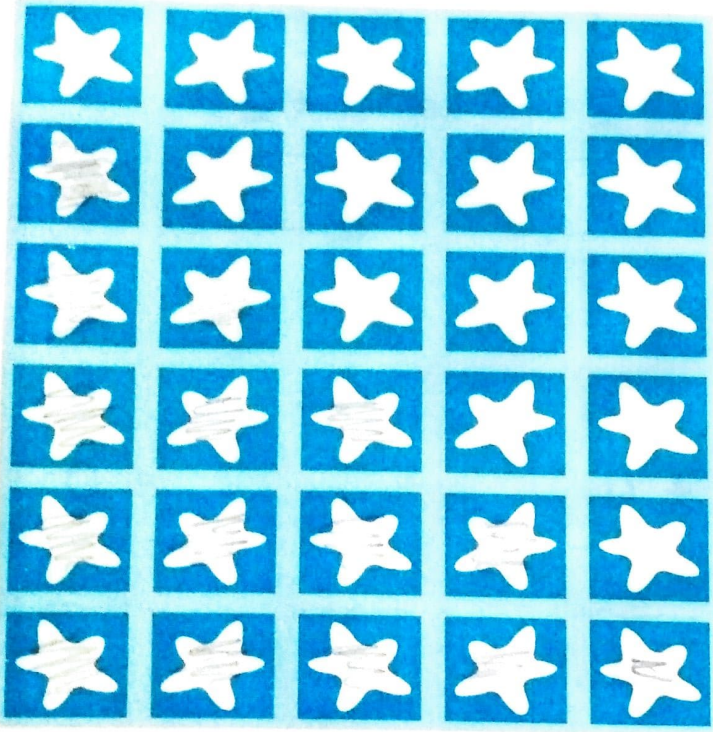

$2 + 7 = 9$

$4 + 4 = 8$

$3 + 2 = 5$

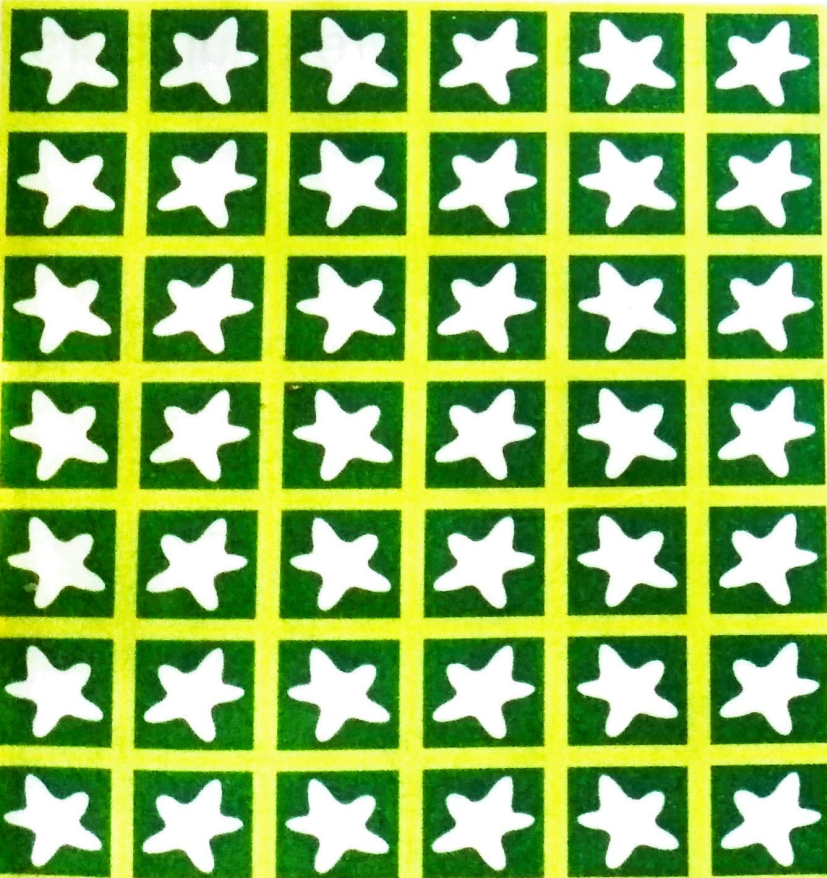# Write the addition fact for the following by shading the stars.

Addition fact of 5

$5 + 0 = 5$

$4 + 1 = 5$

$3 + 2 = 5$

$2 + 3 = 5$

$1 + 4 = 5$

$0 + 5 = 5$

So, the number of addition facts for 5 are [6]

Addition fact of 6

$6 + 0 = 6$

$5 + 1 = 6$

$4 + 2 = 6$

$3 + 3 = 6$

$2 + 4 = 6$

$1 + 5 = 6$

$0 + 6 = 6$

So, the number of addition facts for 6 are [7]

Vertical Addition: We can also add the numbers by arranging them vertically.

$$3$$
$$2$$
$$\overline{5}$$

i.e

$$3$$
$$+\,2$$
$$\overline{5}$$

A

Add the following

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

Addition of three numbers: When we add three numbers we can add them in any order.
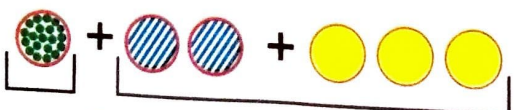
Example: One way

ie

⇒

① + ② + ③

③ + ③

⑥

Other way

ie

⇒

① + ② + ③

① + ⑤

Add the following in two different ways.

$(1) + (3) + (4)$

$(4) + (4)$

(8)

$(1) + (3) + (4)$

$(1) + (7)$

(8)

$(2) + (6) + (0)$

$(8) + (0)$

(8)

$(2) + (6) + (0)$

$(2) + (6)$

(8)

$(5) + (2) + (1)$

$(7) + (1)$

(8)

$(5) + (2) + (1)$

$(5) + (3)$

(8)
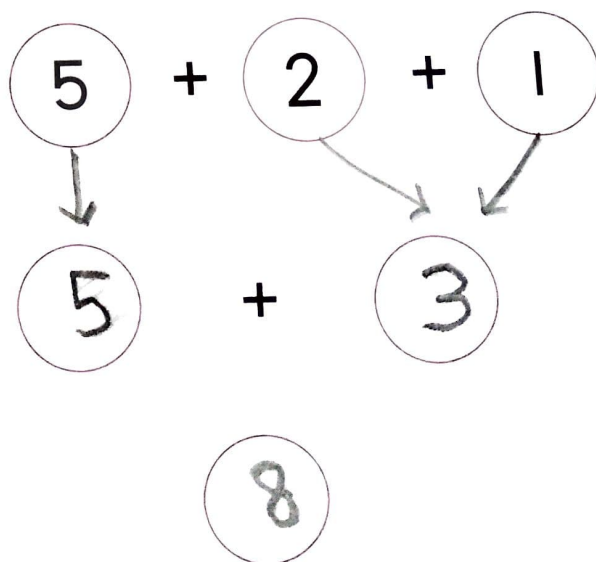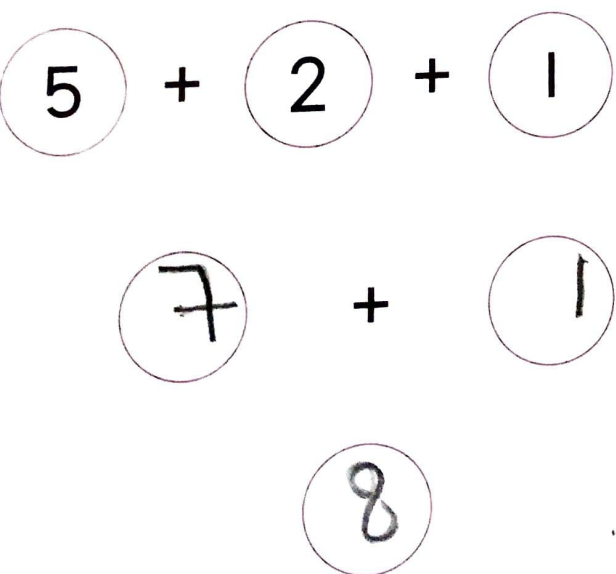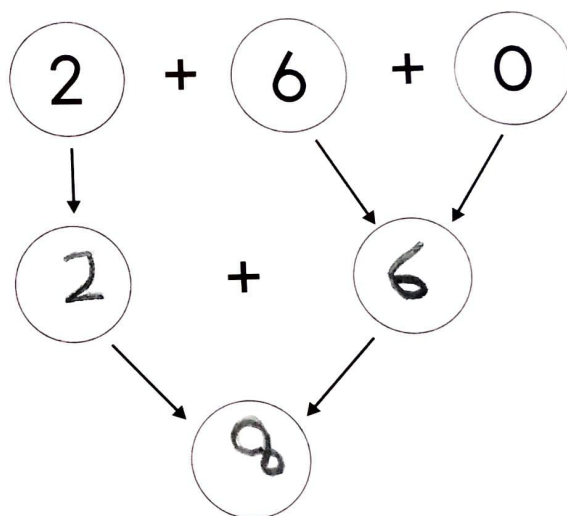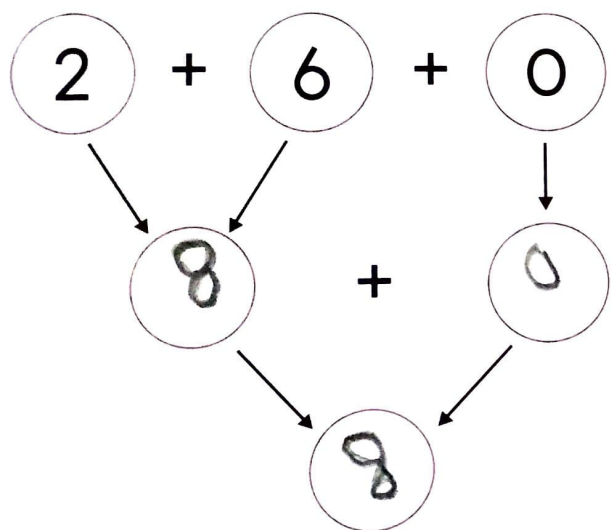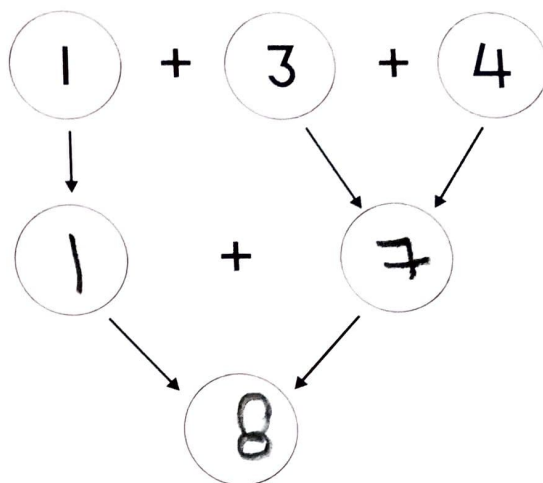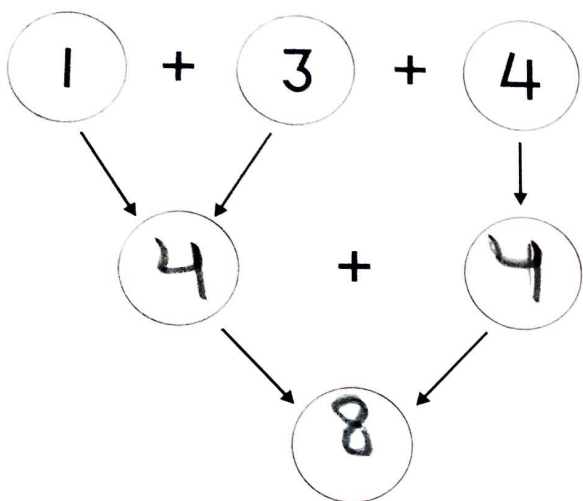
==put the arrows yourself==

==put the arrows yourself==

Addition of three numbers vertically

Arrange the numbers one below the other and add.

Example:

$$
\begin{array}{r}
3 \\
2 \\
+ 4 \\
\hline
9
\end{array}
$$

i e

$$
\begin{array}{r}
3 \\
+ 2 \\
+ 4 \\
\hline
9
\end{array}
$$

Add the following

$$
\begin{array}{r}
5 \rightarrow 7 \\
+ 2 \\
+ 1 \rightarrow 1 \\
\hline
8
\end{array}
$$

$$
\begin{array}{r}
1 \rightarrow 3 \\
+ 2 \\
+ 3 \rightarrow 3 \\
\hline
6
\end{array}
$$

$$
\begin{array}{r}
4 \rightarrow 6 \\
+ 2 \\
+ 0 \rightarrow 0 \\
\hline
6
\end{array}
$$

$$
\begin{array}{r}
5 \rightarrow 6 \\
+ 1 \\
+ 3 \rightarrow 3 \\
\hline
9
\end{array}
$$

$$
\begin{array}{r}
2 \rightarrow 3 \\
+ 1 \\
+ 4 \rightarrow 4 \\
\hline
7
\end{array}
$$

$$
\begin{array}{r}
6 \rightarrow 6 \\
+ 0 \\
+ 1 \rightarrow 1 \\
\hline
7
\end{array}
$$

$$
\begin{array}{r}
2 \rightarrow 4 \\
+ 2 \\
+ 4 \rightarrow 4 \\
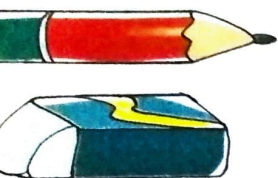\hline
8
\end{array}
$$

$$
\begin{array}{r}
3 \rightarrow 8 \\
+ 5 \\
+ 0 \rightarrow 0 \\
\hline
8
\end{array}
$$

Word Problems

There are 4 flowers in the vase

There are 3 flowers on the table

There are 7 flowers altogether

$$\begin{array}{r} 4 \\ + 3 \\ \hline 7 \end{array}$$

A pencil costs Rs 5

An eraser costs Rs 2.

The total cost of both is 7

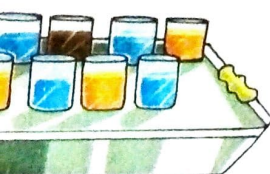$$\begin{array}{r} 5 \\ + 2 \\ \hline 7 \end{array}$$

Tanya puts 6 green beads and 3 white beads in the string.

The total number of beads in the string are 9

$$\begin{array}{r} 6 \\ + 3 \\ \hline 9 \end{array}$$

There are 5 butterflies sucking nectar from flowers. No more butterflies join in. So there are 5 butterflies on the flowers.

$$\begin{array}{r} 5 \\ + 0 \\ \hline 5 \end{array}$$

A tray has 4 glasses of water, 3 glasses of juice and 2 glasses of cold drink. Together there are 9 glasses in the tray.

$$\begin{array}{r} 4 \\ + 3 \\ + 2 \\ \hline 9 \end{array}$$