21st Century Modern Mathematics 1C

12 Addition (2)

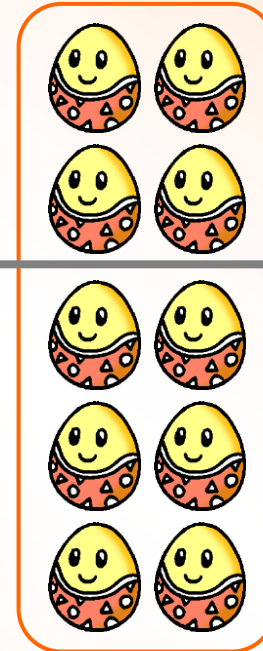Dimension: Number

Learning unit: 1N5 Addition and subtraction (I)

1 How many toys are there?

I have 14 Funny Eggs.

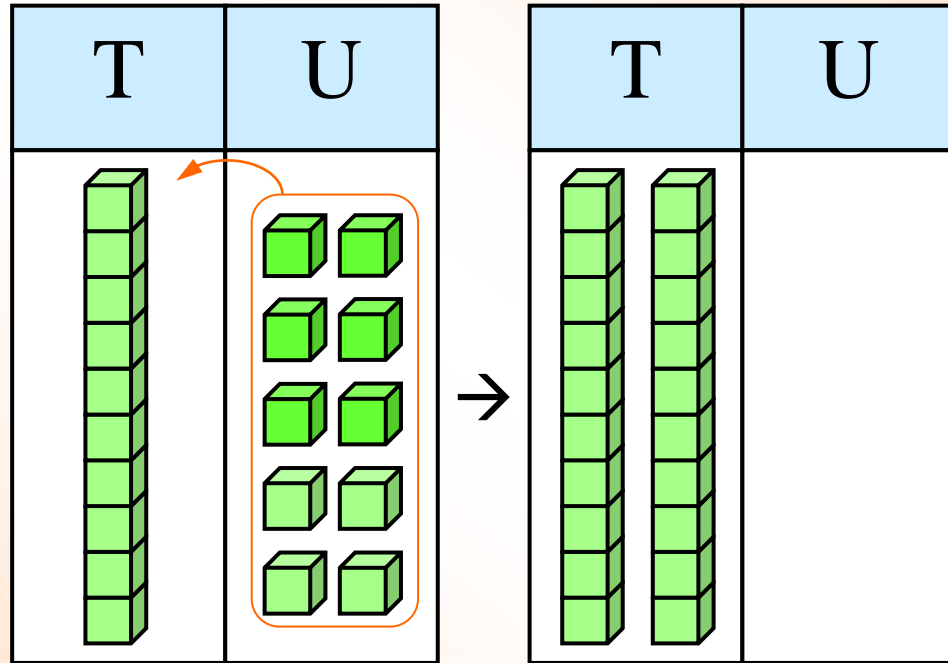**Funny Eggs**

I have 6 Funny Eggs.

1 How many toys are there?

1

T	U

T	U

→

Total: 14 + 6 = 20

1 How many toys are there?

1

$$
\begin{array}{r}
\text{T U} \\
1\ 4 \\
+\quad\ 6 \\
\hline
\end{array}
$$

$$
\begin{array}{r}
4 \\
+\ 6 \\
\hline
10
\end{array}
$$
→
$$
\begin{array}{r}
\text{T U} \\
1\ 4 \\
+\quad\ 6 \\
\hline
0
\end{array}
$$

You can mark the number here.

1 How many toys are there?

1

T U

$$
\begin{array}{r}
1\ \ 4 \\
+\quad\ 6 \\
\hline
\end{array}
$$

$$
\begin{array}{r}
4 \\
+\ \ 6 \\
\hline
10
\end{array}
$$

→

T U

$$
\begin{array}{r}
1\ \ 4 \\
+\quad\ 6 \\
\hline
2\ \ 0
\end{array}
$$

$1 + 1 = 2$

When the units place adds up to 10, carry 1 to the tens place.
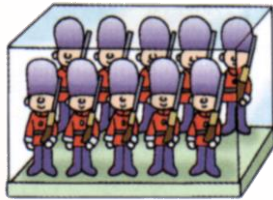
1 How many toys are there?

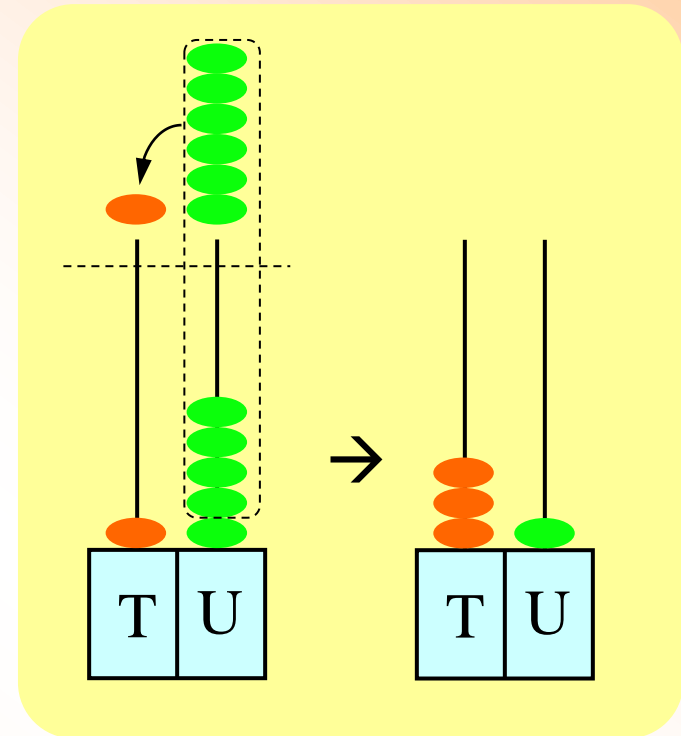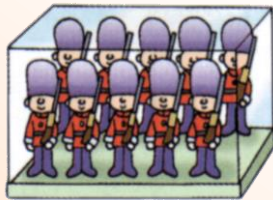What will happen if I forget to carry the number to the tens place?

1 How many toys are there?

2 How many toy soldiers are there?

15 soldiers

16 soldiers

Total: 15 + 16 = 31

	T	U

$\rightarrow$

	T	U

1 How many toys are there?

2 How many toy soldiers are there?

$$
\begin{array}{r}
\text{T U} \\
1\ 5 \\
+\ 1\ 6 \\
\hline
\end{array}
\qquad
\begin{array}{r}
5 \\
+\ 6 \\
\hline
11
\end{array}
\rightarrow
\begin{array}{r}
\text{T U} \\
1\ 5 \\
+\ 1\ 6 \\
\hline
1
\end{array}
\rightarrow
\begin{array}{r}
\text{T U} \\
1\ 5 \\
+\ 1\ 6 \\
\hline
3\ 1
\end{array}
$$

Don't forget the carrying.

3 Look at the abacuses. Write the answers.

a $18 + 3 =$ 21   *b* $26 + 16 =$ 42
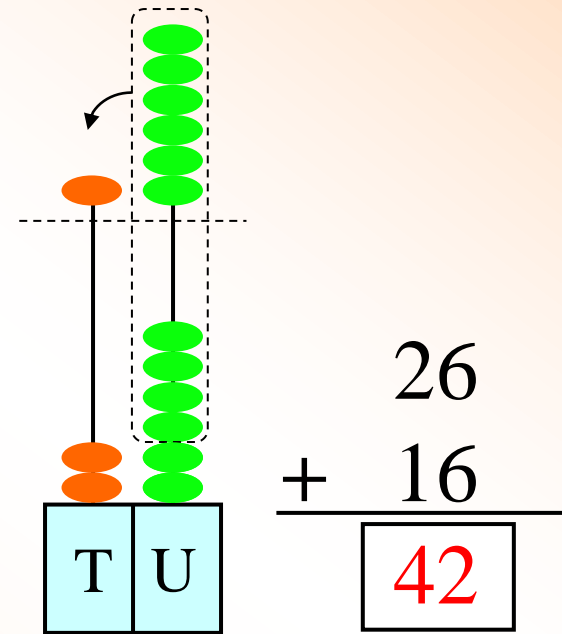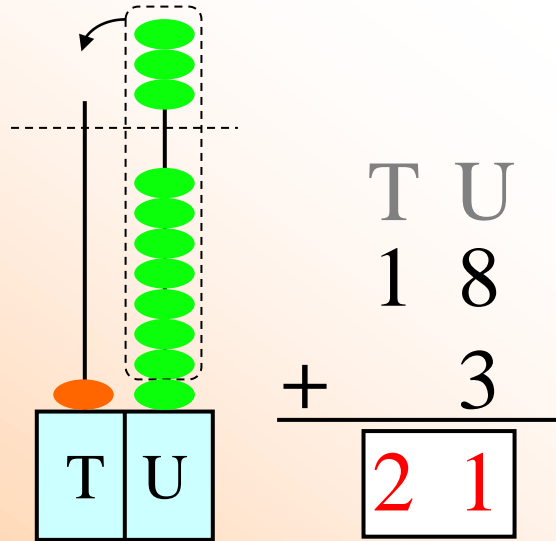
$$\begin{array}{r} \text{T U} \\ 1\ 8 \\ +\quad 3 \\ \hline 2\ 1 \end{array}$$

$$\begin{array}{r} 26 \\ +\ 16 \\ \hline 42 \end{array}$$

T U

T U

How many toys are there?

①
$$\begin{array}{r} 25 \\ +5 \\ \hline \boxed{30} \end{array}$$

②
$$\begin{array}{r} 8 \\ +19 \\ \hline \boxed{27} \end{array}$$

③
$$\begin{array}{r} 13 \\ +37 \\ \hline \boxed{50} \end{array}$$

④
$$\begin{array}{r} 46 \\ +27 \\ \hline \boxed{73} \end{array}$$

2 Counting toys

1 There are 32 🚗 and 19 🚛 .

How many toy cars are there altogether?

32 + 19

= 51

$$\begin{array}{r} 32 \\ +\ 19 \\ \hline 51 \end{array}$$

32 is close to 30.
19 is close to 20.
The answer is close to:
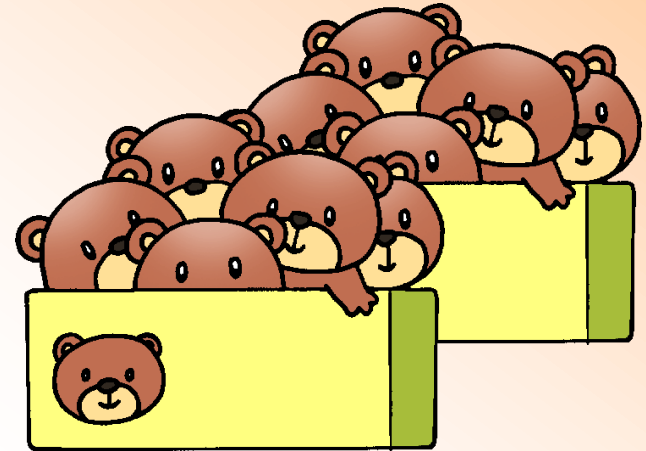30 + 20 = 50

There are 51 toy cars altogether.

2 Counting toys

2 There were 24 🧸 at first.

48 🧸 are added.

How many teddy bears are there altogether?

$$\boxed{24} + \boxed{48}$$

$$= \boxed{72}$$

$$+ \begin{array}{r} \boxed{24} \\ \boxed{48} \\ \hline \boxed{72} \end{array}$$

There are __72__ teddy bears altogether.

2 Counting toys

★ 3 There are 19 🎸 .

There are 11 more 🎹 than 🎸 .

How many pianos are there?

Write the column form.

$$19 + 11$$

$$= \boxed{30}$$

There are __30__ pianos.

$$\begin{array}{r} 19 \\ +\ 11 \\ \hline 30 \end{array}$$

2 Counting toys
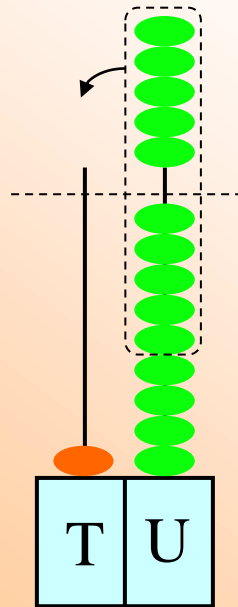
Let's do the activity, 'Game of addition', on page 18 of *Classroom Learning 1C*.

Look at the abacuses. Write the answers.

① 19 + 5 = 24   ② 27 + 26 = 53
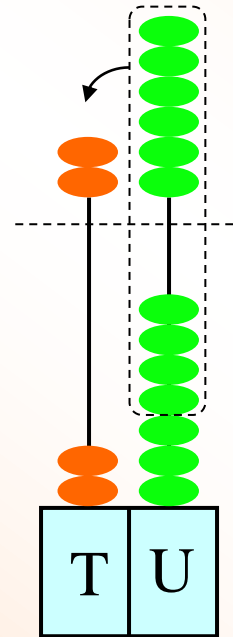

```
  19
+  5
─────
  24
```



```
  27
+ 26
─────
  53
```

Fill in the blanks.

③
$$
\begin{array}{r}
8 \\
+ \ 17 \\
\hline
\boxed{25}
\end{array}
$$

④
$$
\begin{array}{r}
23 \\
+ \ 8 \\
\hline
\boxed{31}
\end{array}
$$

⑤
$$
\begin{array}{r}
64 \\
+ \ 16 \\
\hline
\boxed{80}
\end{array}
$$

⑥
$$
\begin{array}{r}
35 \\
+ \ 28 \\
\hline
\boxed{63}
\end{array}
$$

Fill in the blanks.

(7) 49 + 3 = $\boxed{52}$

(8) 7 + 54 = $\boxed{61}$

(9) 15 + 76 = $\boxed{91}$

(10) 25 + 35 = $\boxed{60}$

Fill in the blanks.

⑪ There were 69 fish in the tank. 18 fish are added. How many fish are there altogether?

| 69 | + | 18 |

= 87
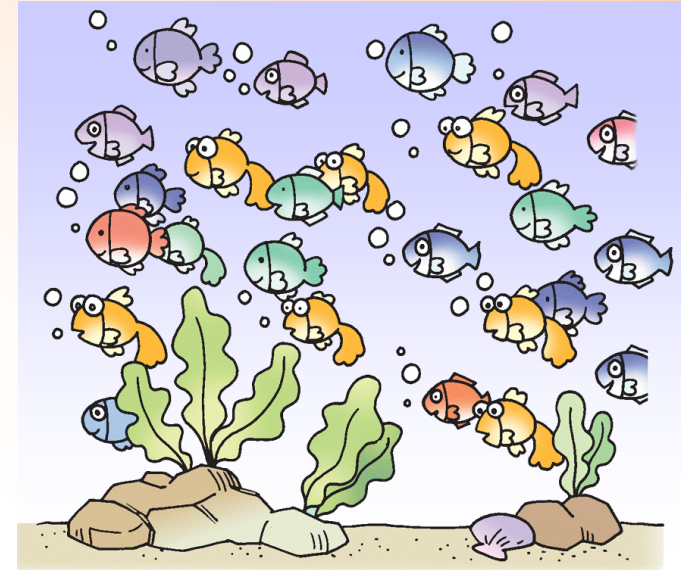
There are ___87___ fish altogether.

$$
\begin{array}{r}
69 \\
+\ 18 \\
\hline
87
\end{array}
$$

Interesting sums

Do you remember the compositions of 10? Let's write them out.

Compositions of 10

$1 + 9$ $2 + 8$ $3 + \boxed{7}$

$4 + \boxed{6}$ $5 + \boxed{5}$ $6 + \boxed{4}$
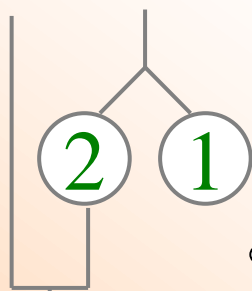
$7 + \boxed{3}$ $8 + \boxed{2}$ $9 + \boxed{1}$

Interesting sums

1 Do the sums using the compositions of 10:
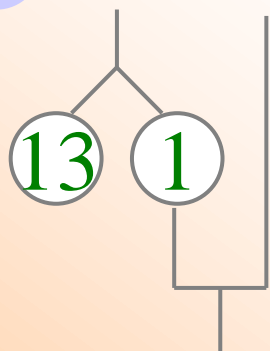
a   8 + 3 = ?

2   1

Write 3 as 2 + 1, We can add 2 to 8 to form 10.

10 + 1 = 11

Interesting sums

1 Do the sums using the compositions of 10:
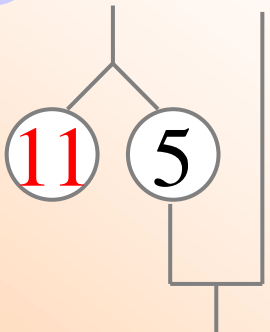
b $14 + 9 = ?$

13 1

Write 14 as $13 + 1$, We can add 1 to 9 to form 10.

$13 + 10 = \boxed{23}$

Interesting sums

2 Let's try.

a 16 + 5 = ?

$$\begin{array}{c} 16 \\ \diagup\ \ \ \diagdown \\ (11)\ (5) \end{array}$$

$$\boxed{11} + 10 = \boxed{21}$$

b 16 + 5 = ?

$$\begin{array}{c} 5 \\ \diagup\ \ \ \diagdown \\ (4)\ (1) \end{array}$$
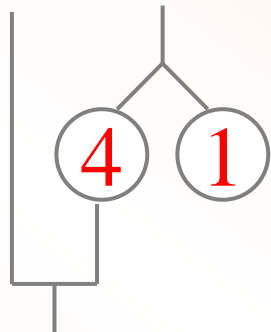
$$20 + \boxed{1} = \boxed{21}$$

Interesting sums

3 Let's do the sums using the above method.

a $13 + 9 = \boxed{22}$ *b* $24 + 7 = \boxed{31}$