

21st Century Modern Mathematics
1D

15 Subtraction (2)

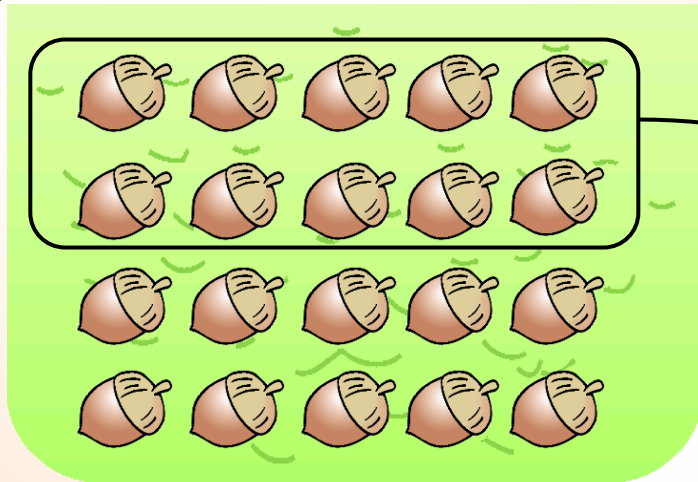
Dimension: Number

Learning unit: 1N5 Addition and subtraction (I)

1 Sharing food

1

These are for you!

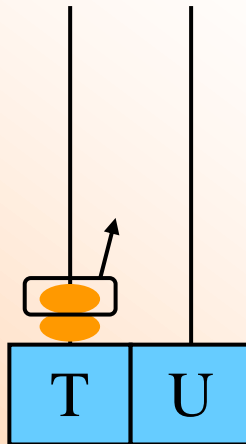


Thank you!



$$20 - 10 =$$

10

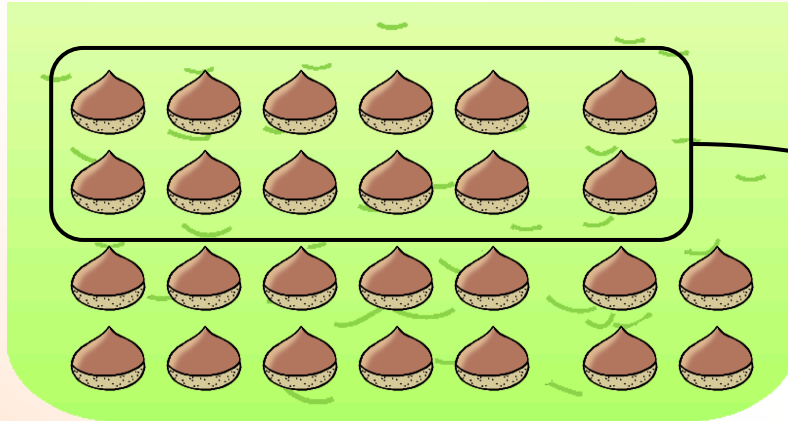


1 Sharing food

2

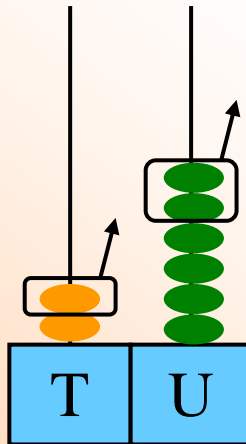
These are for you!

Thank you!



$$26 - 12 =$$

$$14$$



1 Sharing food

2

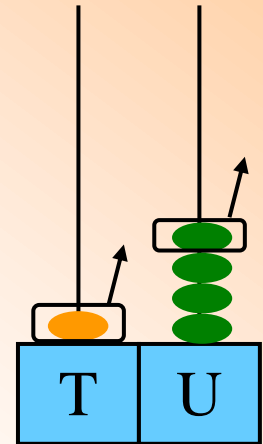
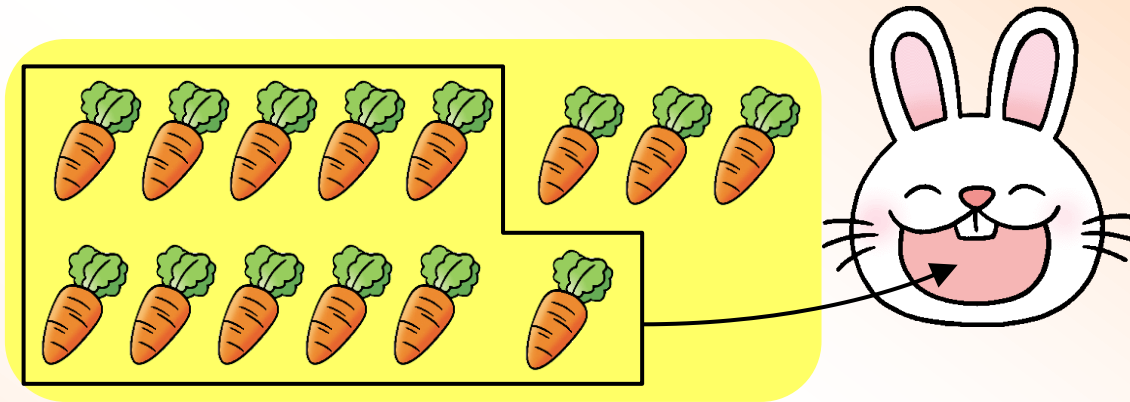


First, subtract the numbers in the units place. Then, subtract the numbers in the tens place.

T	U		T	U
2	6		2	6
-	1		-	1
	4		1	4

2 How many food items are left?

1



How many are left? $14 - 11 =$ 3



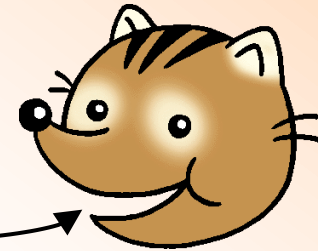
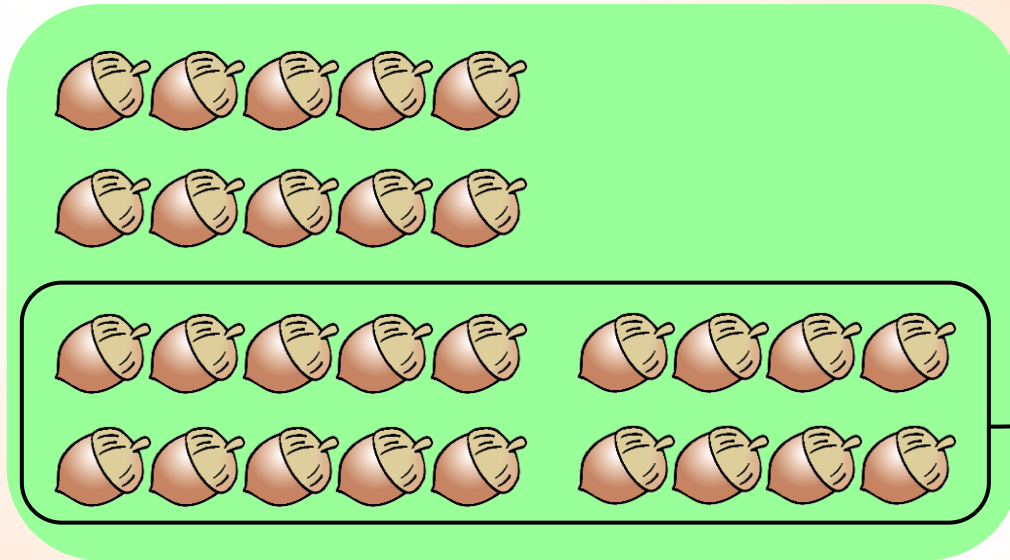
Do we need to write a '0' in tens place?

No

$$\begin{array}{r}
 \text{T} \quad \text{U} \\
 14 \\
 - 11 \\
 \hline
 3
 \end{array}$$

2 How many food items are left?

2



How many are left? $28 - 18 =$ 10

Do we need to write a '0' in the units place? **Yes**



$$\begin{array}{r} 28 \\ - 18 \\ \hline 10 \end{array}$$

2 How many food items are left?

Class Study

①

$$\begin{array}{r} 50 \\ - 30 \\ \hline \boxed{20} \end{array}$$

②

$$\begin{array}{r} 35 \\ - 12 \\ \hline \boxed{23} \end{array}$$

③

$$\begin{array}{r} 26 \\ - 24 \\ \hline \boxed{2} \end{array}$$

④

$$\begin{array}{r} 47 \\ - 17 \\ \hline \boxed{30} \end{array}$$

3 At a fruit shop

- 1 There were 53 oranges. 20 of them were used to make orange juice. How many oranges are left?

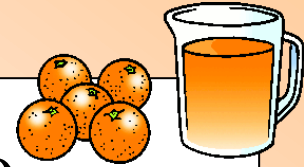
$$\begin{array}{r} 53 - 20 \\ = 33 \end{array}$$

33 oranges are left.

53 is close to 50.

The answer is close to:

$$50 - 20 = \boxed{30}$$

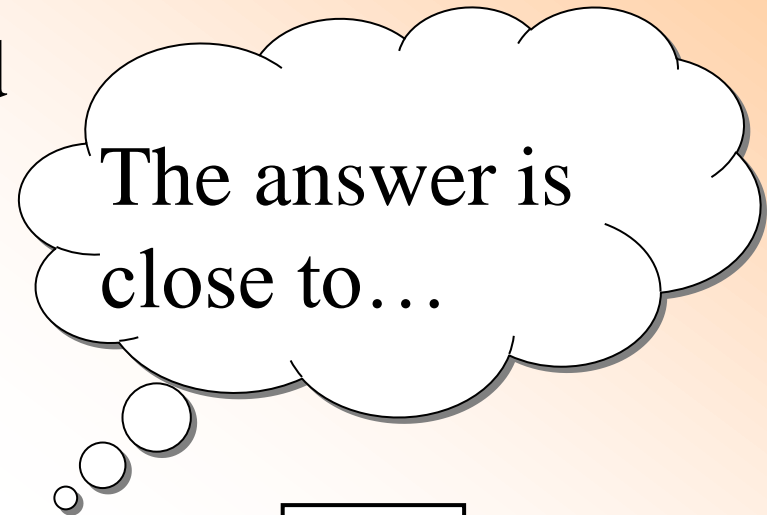


3 At a fruit shop

- 2 There are 32 apples and 12 kiwi fruits. How many more apples are there than kiwi fruits?

$$\begin{array}{r} \boxed{32} - \boxed{12} \\ = \boxed{20} \end{array}$$

There are 20 more apples than kiwi fruits.



$$\begin{array}{r} \boxed{32} \\ - \boxed{12} \\ \hline \boxed{20} \end{array}$$

3 At a fruit shop

- ★ 3 There are 21 boxes of pears and 28 boxes of mangoes. How many fewer boxes of pears are there than mangoes?

$$\begin{array}{r} 28 - 21 \\ \hline = \boxed{7} \end{array}$$

There are 7 fewer boxes of pears than mangoes.

Which is the subtrahend?
Which is the minuend?

$$\begin{array}{r} 28 \\ - 21 \\ \hline 7 \end{array}$$



Exercise 15

Fill in the blanks.

$$\begin{array}{r} \textcircled{1} \\ 70 \\ - 20 \\ \hline \boxed{50} \end{array}$$

$$\begin{array}{r} \textcircled{2} \\ 36 \\ - 13 \\ \hline \boxed{23} \end{array}$$

$$\begin{array}{r} \textcircled{3} \\ 94 \\ - 54 \\ \hline \boxed{40} \end{array}$$

Exercise 15

Fill in the blanks.

$$\textcircled{4} \quad 67 - 42 = \boxed{25}$$

$$\textcircled{5} \quad 55 - 20 = \boxed{35}$$

$$\textcircled{6} \quad 89 - 45 = \boxed{44}$$

$$\textcircled{7} \quad 31 - 11 = \boxed{20}$$

$$\star \textcircled{8} \quad \boxed{50} - 10 = 40$$

$$\star \textcircled{9} \quad \boxed{88} - 23 = 65$$

Exercise 15

Solve these problems.

- ⑩ There were 63 books.
21 of them were borrowed away.
How many books are left?

$$\begin{array}{r} 63 - 21 \\ \hline = \boxed{42} \end{array}$$

42 books are left.

$$\begin{array}{r} \boxed{63} \\ \text{⊖} \boxed{21} \\ \hline \boxed{42} \end{array}$$



Exercise 15

Solve these problems.

★ 11 There are 30 picture books and 32 storybooks.

How many more storybooks are there than picture books?

$$\begin{array}{r}
 32 - 30 \\
 \hline
 = \boxed{2}
 \end{array}$$

$$\begin{array}{r}
 32 \\
 - 30 \\
 \hline
 2
 \end{array}$$

There are 2 more storybooks than picture books.



Interesting calculations

Do you remember the compositions of 10?
Complete the table on the right.



10	-	1	=	9
		2		8
		3		7
		4		6
		5		5
		6		4
		7		3
		8		2
		9		1

Interesting calculations

1 Let's see how to calculate.

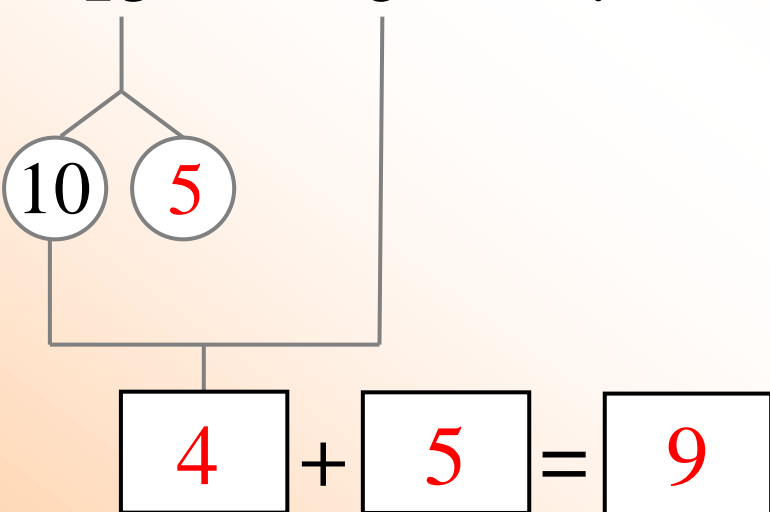
$$\begin{array}{r}
 12 - 3 = ? \\
 \begin{array}{c}
 | \quad | \\
 \circled{10} \quad \circled{2} \\
 | \quad | \\
 \hline
 7 + 2 = \boxed{9}
 \end{array}
 \end{array}$$

Write '12' as $10 + 2$.
 First, subtract 3 from
 10 to get 7 . Then, add
 2 to 7 to get 9.

Interesting calculations

2 Let's try!

a

$$15 - 6 = ?$$


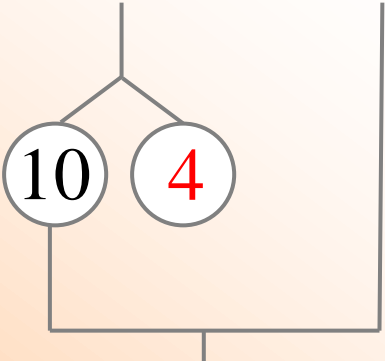
The diagram illustrates the calculation $15 - 6 = ?$ using a decomposition strategy. The number 15 is decomposed into 10 and 5. From the 10, 6 is subtracted to leave 4. The remaining 5 is then added to the 4, resulting in 9.

$$\boxed{4} + \boxed{5} = \boxed{9}$$

Interesting calculations

2 Let's try!

b

$$14 - 9 = ?$$


$$\boxed{1} + \boxed{4} = \boxed{5}$$