Let's find the answer of 21 × 3.

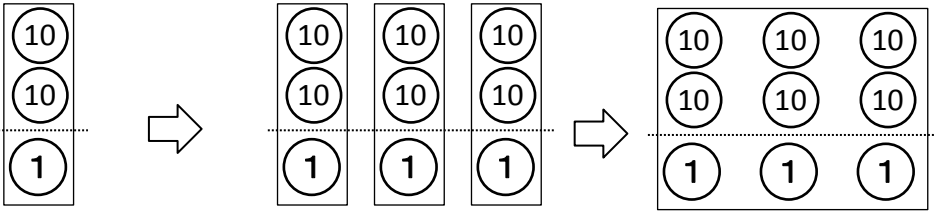
Multiplication of big numbers.

$21 \times 3 =$ ☐

1) How many sets of (10) and (1) dose the number made of.

$21 \times 3 =$ ☐

21 ⇨ 21 × 3 = ☐



21 consists of 2 sets of (10) and 1 (1).

The answer is $2 \times 3 = 6$ sets of (10) and $1 \times 3 = 3$ (1).

$21 \times 3 = 63$

“o” means ●, “t” means ×.

1) Split 21 into two numbers.

21 × 3 = ☐

2 1 × 3

20 × 3 = ☐

1 × 3 = ☐

In total ☐

t	o
2	1

Split 21 into “t” and “o”.

2) Split 23 into two numbers.

2 1 × 3

20 × 3 = 60

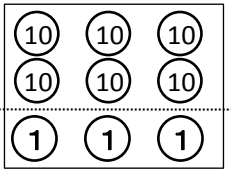
1 × 3 = 3

In total 63

Good!

21 × 3 = 63

Good!



Both the diagram and the number sentence calculate by their place values. We can calculate if we split them into the places.

“o” means ●, “t” means ×.

Let’s multiply big numbers by vertical method.

21 × 3

We write the numbers align to the right.

t	o
2	1
×	3

3, the number at the bottom is at “o”, so we write it below the 1 of 21.

Start multiplying from the numbers at “o”.

t	o
2	1
×	3
	3

3 × 1 = ③

The number at “o” means 3 by 3 × 1, so we write 3 at “o”.

Multiply the numbers at “t”.

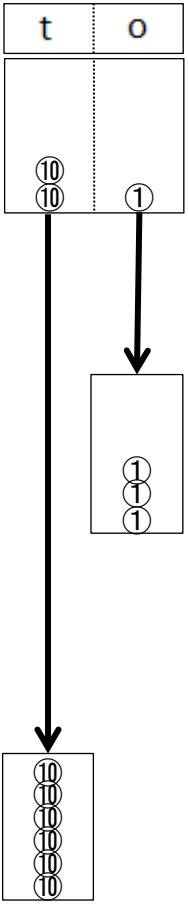
t	o
2	1
×	3
6	3

3 × 2 = ⑥

The number at “t” is 3 × 2 = 6. So, we write 6 at “t”.

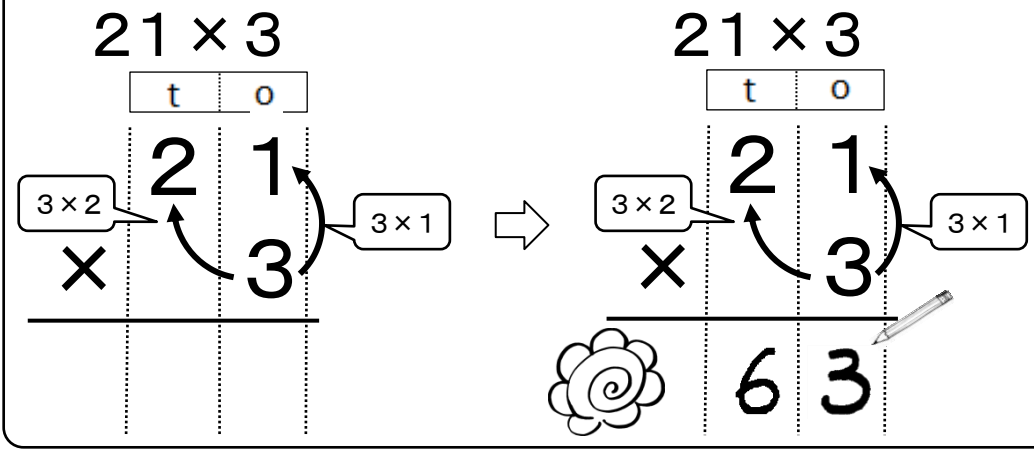
	21
×	3
	3
+	60
	63

Multiply separately by their places and add the answers later.



“o” means ●, “t” means ×.

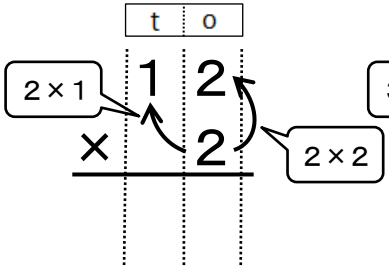
Example Multiply.



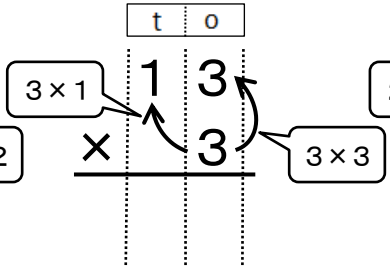
Good!

Exercise Multiply.

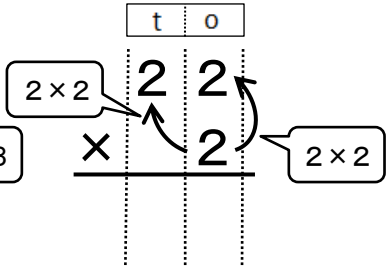
① 12 × 2



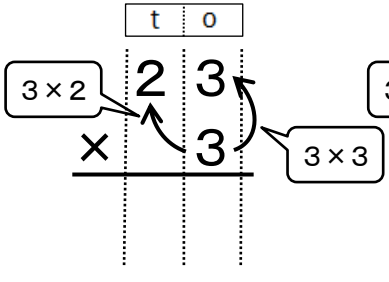
② 13 × 3



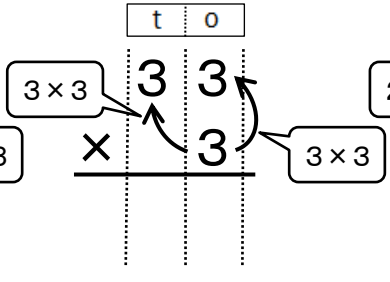
③ 22 × 2



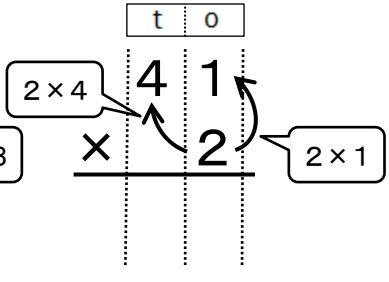
④ 23 × 3



⑤ 33 × 3

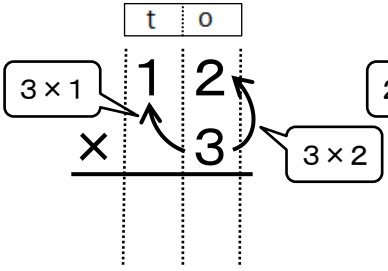


⑥ 41 × 2

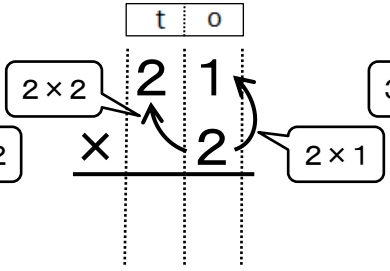


Exercise Multiply.

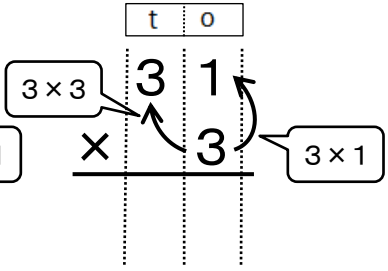
⑦ 12 × 3



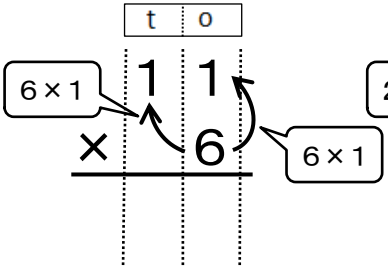
⑧ 21 × 2



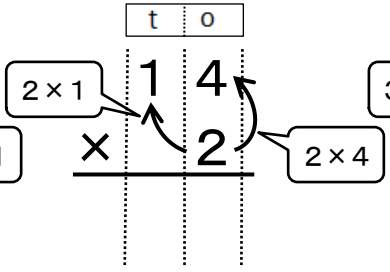
⑨ 31 × 3



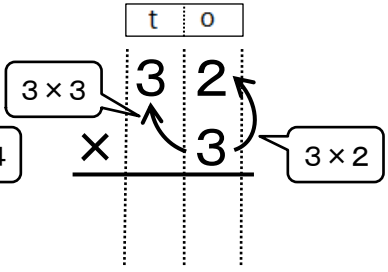
⑩ 11 × 6



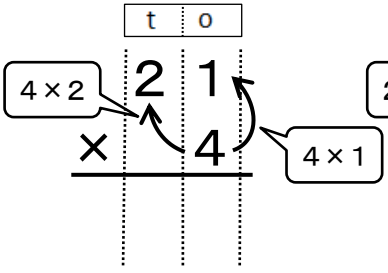
⑪ 14 × 2



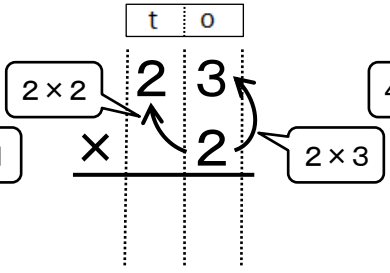
⑫ 32 × 3



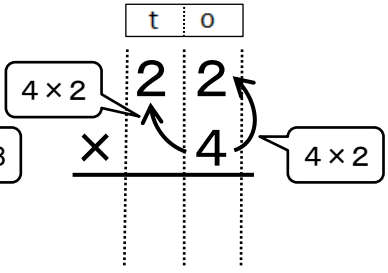
⑬ 21 × 4



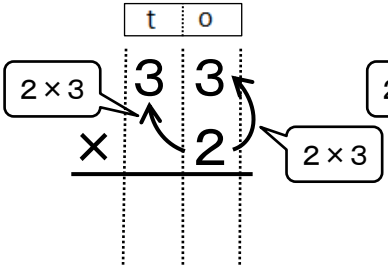
⑭ 23 × 2



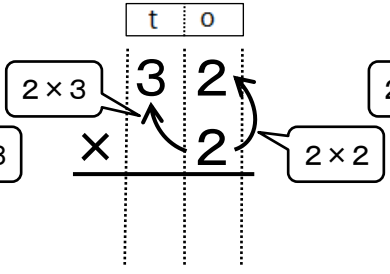
⑮ 22 × 4



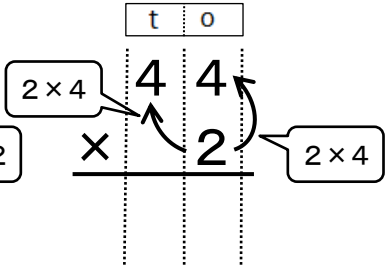
⑯ 33 × 2



⑰ 32 × 2



⑱ 44 × 2



"o" means ●, "t" means ×.

Example Multiply.

21 × 3

t	o
2	1
×	3

21 × 3

t	o
2	1
×	3
6	3

Exercise Multiply.

① 12 × 4

t	o
1	2
×	4

② 31 × 2

t	o
3	1
×	2

③ 22 × 3

t	o
2	2
×	3

④ 43 × 2

t	o
4	3
×	2

⑤ 42 × 2

t	o
4	2
×	2

⑥ 34 × 2

t	o
3	4
×	2

⑦ 13 × 2

t	o
1	3
×	2

⑧ 24 × 2

t	o
2	4
×	2

"o" means ●, "t" means ×.

Example Multiply. Do not forget to write "×".

21 × 3

t	o
×	

21 × 3

t	o
2	1
×	3
6	3

Do not forget!

Exercise Multiply. Do not forget to write "×".

① 13 × 3

t	o
1	3
×	3

② 12 × 4

t	o
1	2
×	4

③ 22 × 3

t	o
2	2
×	3

④ 32 × 2

t	o
3	2
×	2

⑤ 24 × 2

	2	4
×		2

⑥ 31 × 3

	3	1
×		3

⑦ 11 × 5

	1	1
×		5

⑧ 43 × 2

	4	3
×		2

“o” means ●, “t” means × ‘’h means ○.

Let’s multiply big numbers by vertical multiplication.

26×3

Start multiplying from the numbers at “o”.

h	t	o
	2	6
×		3
	1	8

$3 \times 6 = ⑱$

Multiplication at “o” is $3 \times 6 = 18$, so we write 8 at “o” and 1 at “t”. Write the 1 small.

Multiply the numbers at “t”.

h	t	o
	2	6
×		3
	1	8

$3 \times 2 = ⑥$

$6+1=7$

Multiplication at “t” is $3 \times 2 = 6$, so we add 6 to the 1 which we write small.

Add the numbers at ‘’t’’.

After you add cross out the small number.

h	t	o
	~~2~~ 1	6
×		3
	7	8

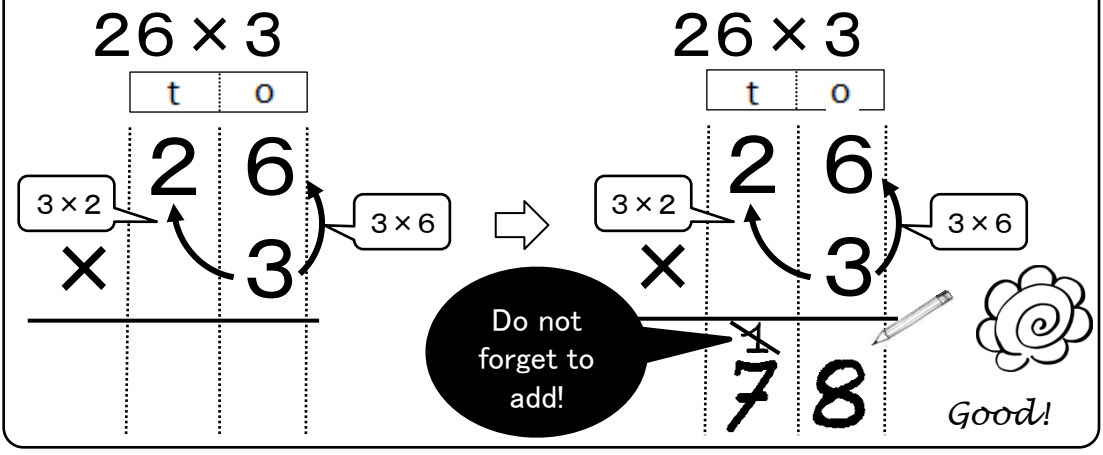
Write 7 at “t” because there are $6+1=7$ sets of ⑩ at “t”.

$$\begin{array}{r} 26 \\ \times\ 3 \\ \hline 18 \\ +\ 60 \\ \hline 78 \end{array}$$

If we write separately by places, we can find out the answers are $18+60$.

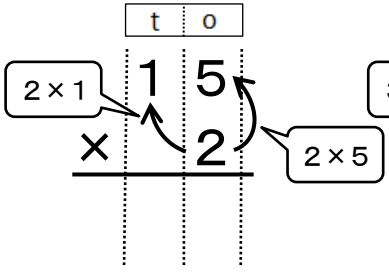
“o” means ●, “t” means ×.

Example Multiply.

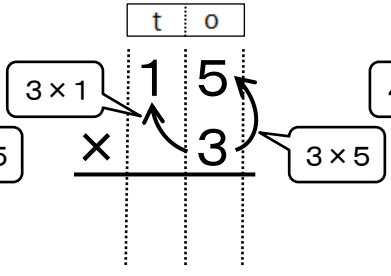


Exercise Multiply.

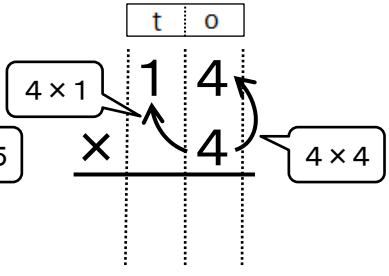
① 15 × 2



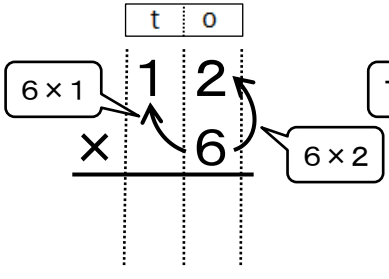
② 15 × 3



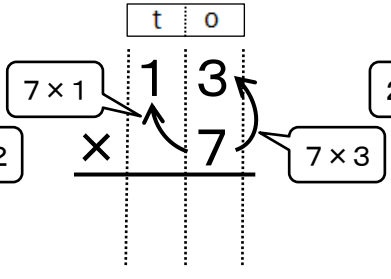
③ 14 × 4



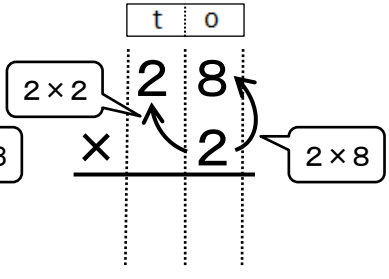
④ 12 × 6



⑤ 13 × 7

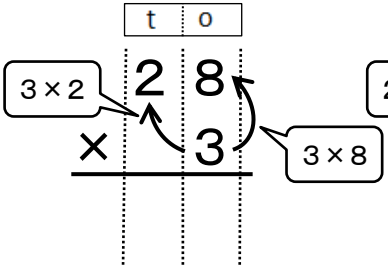


⑥ 28 × 2

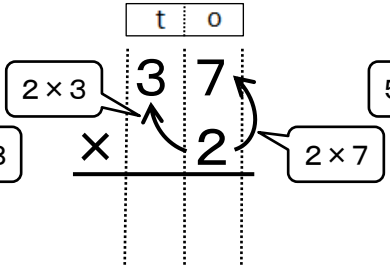


Exercise Multiply.

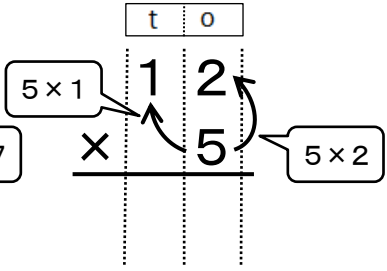
⑦ 28 × 3



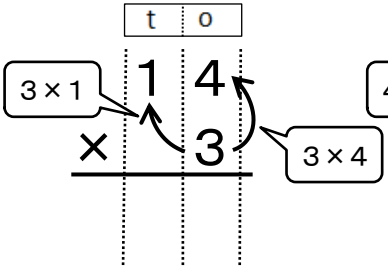
⑧ 37 × 2



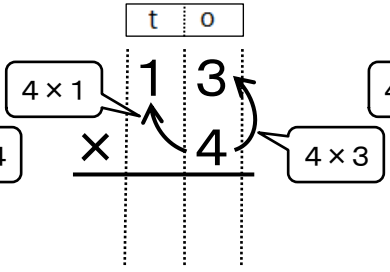
⑨ 12 × 5



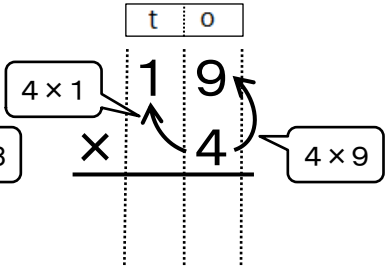
⑩ 14 × 3



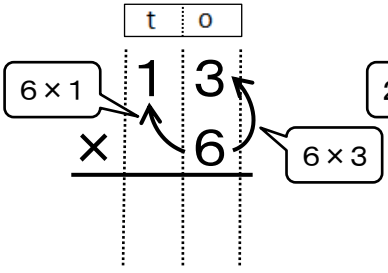
⑪ 13 × 4



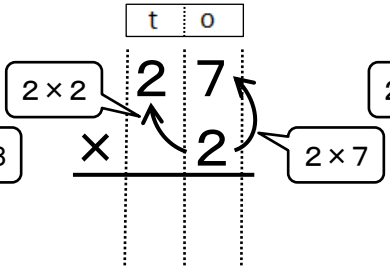
⑫ 19 × 4



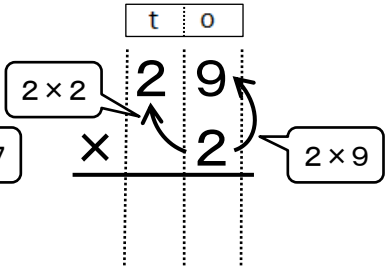
⑬ 13 × 6



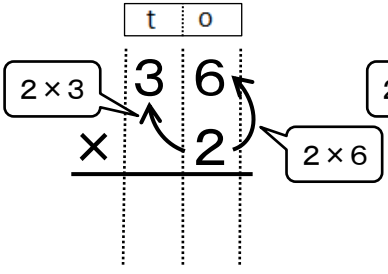
⑭ 27 × 2



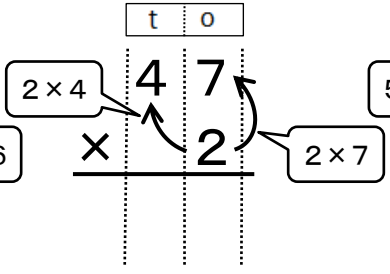
⑮ 29 × 2



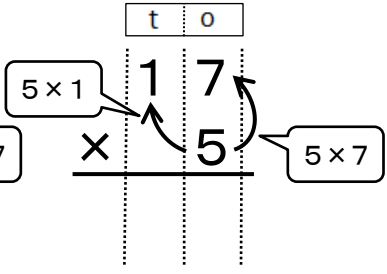
⑯ 36 × 2



⑰ 47 × 2



⑱ 17 × 5

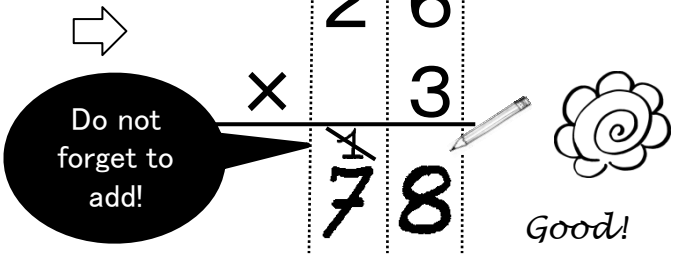


“o” means ●, “t” means ×.

Example Multiply.

26×3

t	o
2	6
×	3



Exercise Multiply.

① 16×2

t	o
1	6
×	2

② 19×3

t	o
1	9
×	3

③ 15×4

t	o
1	5
×	4

④ 14×6

t	o
1	4
×	6

⑤ 26×2

t	o
2	6
×	2

⑥ 24×3

t	o
2	4
×	3

⑦ 35×2

t	o
3	5
×	2

⑧ 38×2

t	o
3	8
×	2

Exercise Multiply.

⑨ 17 × 2

	t	o
	1	7
×		2

⑩ 13 × 5

	t	o
	1	3
×		5

⑪ 19 × 3

	t	o
	1	9
×		3

⑫ 16 × 4

	t	o
	1	6
×		4

⑬ 15 × 6

	t	o
	1	5
×		6

⑭ 14 × 7

	t	o
	1	4
×		7

⑮ 25 × 3

	t	o
	2	5
×		3

⑯ 24 × 4

	t	o
	2	4
×		4

⑰ 39 × 2

	3	9
×		2

⑱ 16 × 5

	1	6
×		5

⑲ 48 × 2

	4	8
×		2

⑳ 19 × 5

	1	9
×		5

"o" means ●, "t" means ×.

Example Multiply. Do not forget to write "×".

26×3

t	o
×	

26×3

t	o
2	6
×	3
~~4~~ 7	8

Do not forget!

Good!

Exercise Multiply. Do not forget to write "×".

① 18×2

t	o

② 17×3

t	o

③ 18×4

t	o

④ 16×6

t	o

⑤ 12×8

t	o

⑥ 27×3

t	o

⑦ 23×4

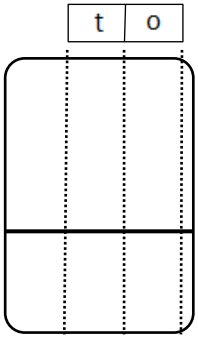
t	o

⑧ 45×2

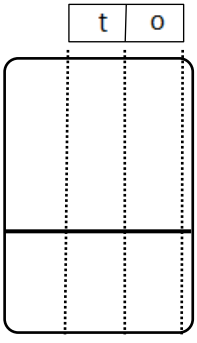
t	o

Exercise Multiply. Do not forget to write " × ".

⑨ 14 × 5

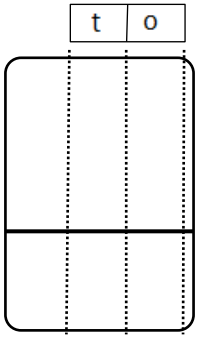


⑩ 19 × 2



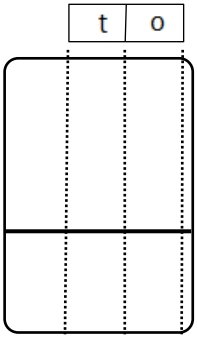
⑪ 18 × 3

⑫ 17 × 4

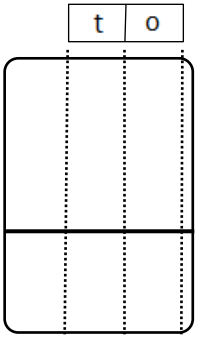


⑬ 12 × 7

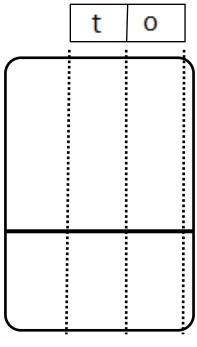
⑭ 25 × 2



⑮ 26 × 3



⑯ 46 × 2

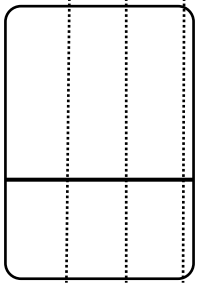


⑰ 29 × 3

⑱ 15 × 5

⑲ 49 × 2

⑳ 18 × 5



“o” means ● , “t” means × ‘’h means ○.

Let’s calculate this.

32×4

Start multiplying from the numbers at “o”.

h	t	o
	3	2
×		4
		8

$4 \times 2 = 8$

The multiplication at “o” is $4 \times 2 = 8$, so we write 8 at “o”.

Multiply the numbers at “t”.

h	t	o
	3	2
×		4
1	2	8

$4 \times 3 = 12$

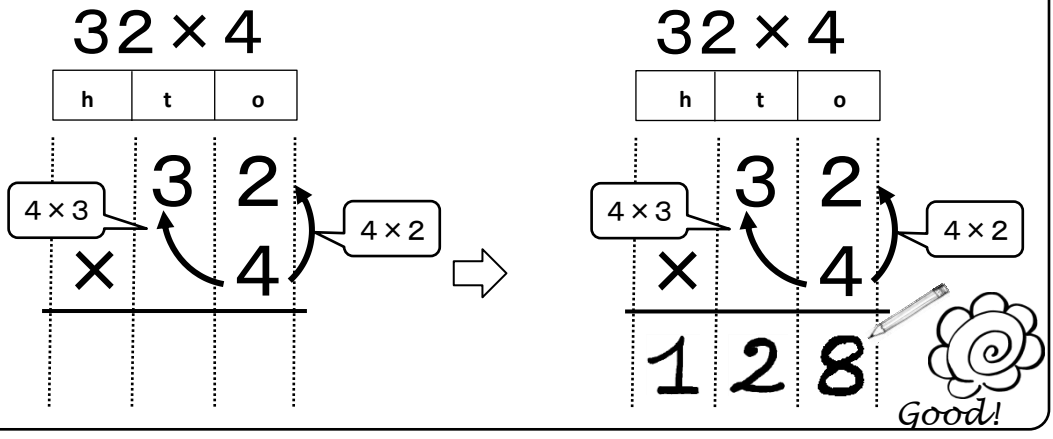
The multiplication at “t” is $4 \times 3 = 12$, so we write 2 at “t” and 1 at “h”.

$$\begin{array}{r} 32 \\ \times\ 4 \\ \hline 8 \\ \times\ 120 \\ \hline 128 \end{array}$$

If we write separately by places, we can find out the answer is made of $8 + 120$.

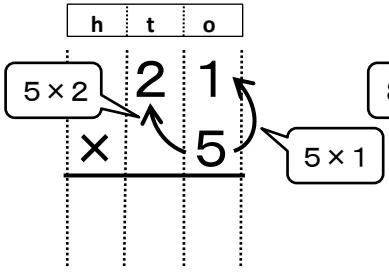
“o” means ●, “t” means × “h means ○.

Example Multiply.

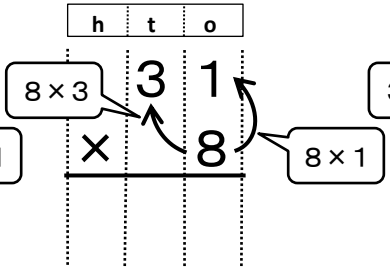


Exercise Multiply.

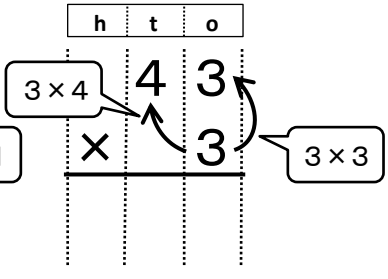
① 21 × 5



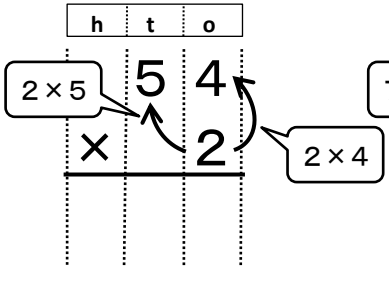
② 31 × 8



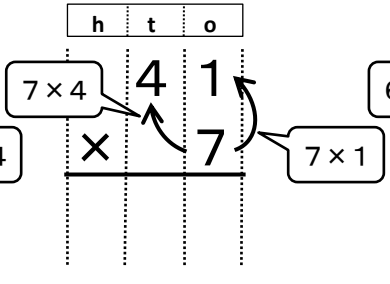
③ 43 × 3



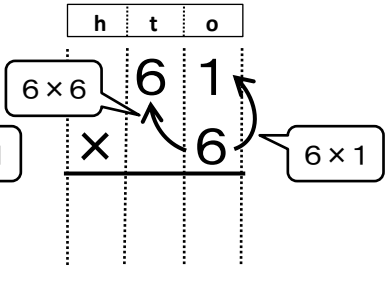
④ 54 × 2



⑤ 41 × 7

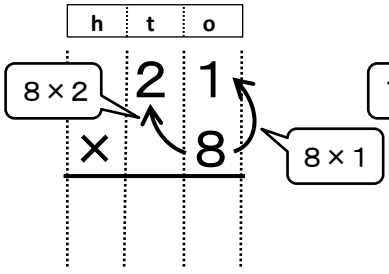


⑥ 61 × 6

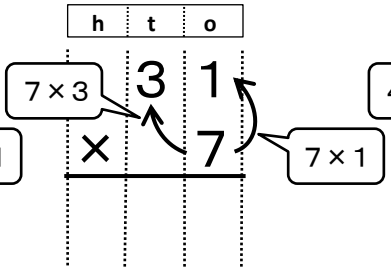


Exercise Multiply.

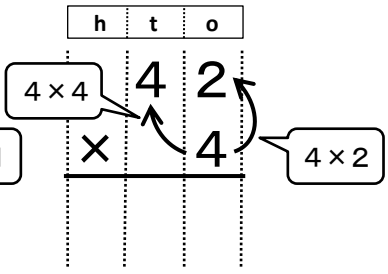
⑦ 21 × 8



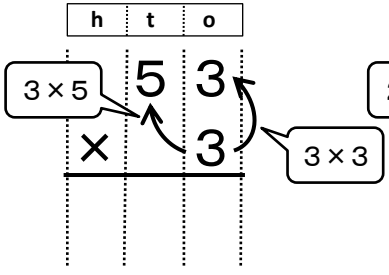
⑧ 31 × 7



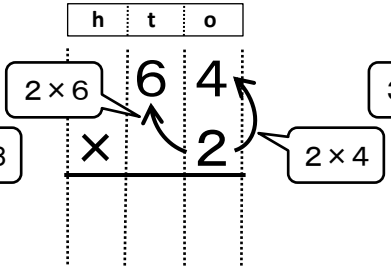
⑨ 42 × 4



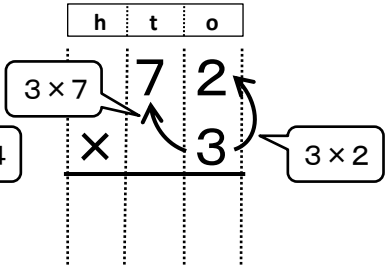
⑩ 53 × 3



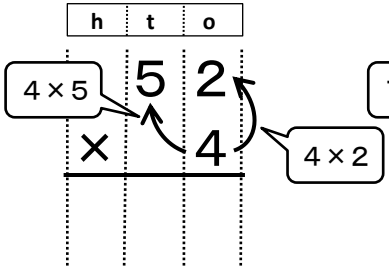
⑪ 64 × 2



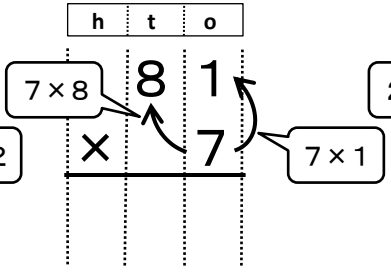
⑫ 72 × 3



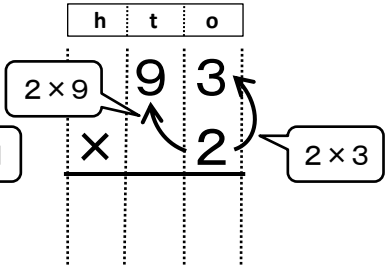
⑬ 52 × 4



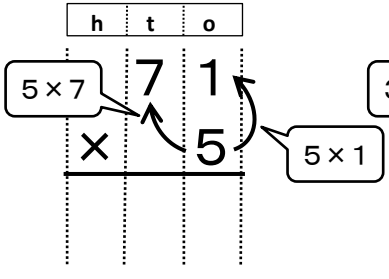
⑭ 81 × 7



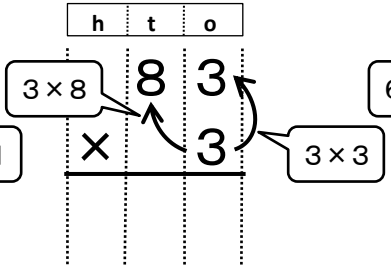
⑮ 93 × 2



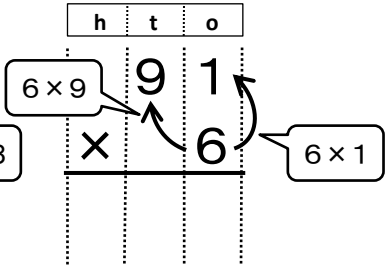
⑯ 71 × 5



⑰ 83 × 3



⑱ 91 × 6



“o” means ● , “t” means × ‘’h means ○.

Example Multiply.

32×4

h	t	o
	3	2
×		4

h	t	o
	3	2
×		4
1	2	8

Exercise Multiply.

① 21×6

h	t	o
	2	1
×		6

② 31×4

h	t	o
	3	1
×		4

③ 41×5

h	t	o
	4	1
×		5

④ 51×3

h	t	o
	5	1
×		3

⑤ 61×8

	6	1
×		8

⑥ 72×2

	7	2
×		2

⑦ 81×7

	8	1
×		7

⑧ 93×2

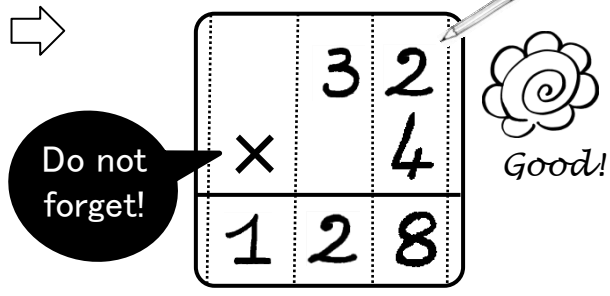
	9	3
×		2

“o” means ●, “t” means ×.

Example Multiply. Do not forget to write “×”.

32 × 4

h	t	o
×		



Exercise Multiply. Do not forget to write “×”.

① 21 × 7

h	t	o

② 31 × 5

h	t	o

③ 41 × 3

h	t	o

④ 51 × 2

h	t	o

⑤ 62 × 4

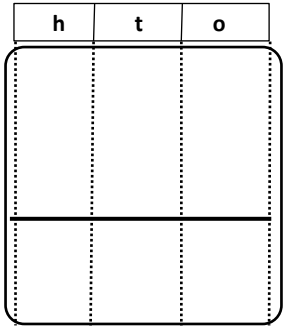
h	t	o

⑥ 71 × 6

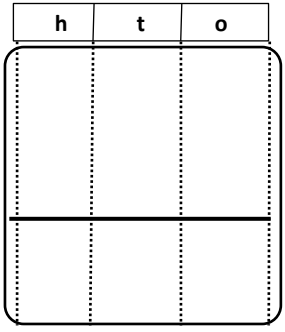
h	t	o

Exercise Multiply. Do not forget to write "×".

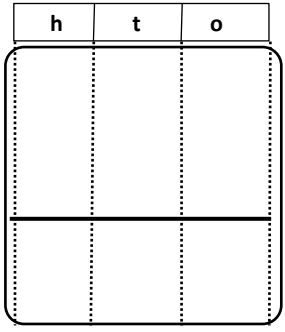
⑦ 21 × 9



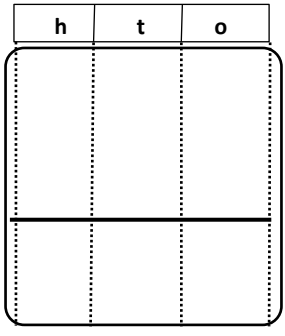
⑧ 31 × 8



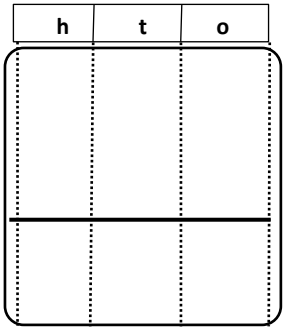
⑨ 42 × 3



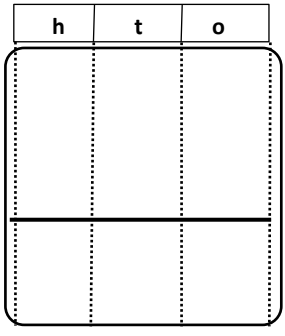
⑩ 82 × 2



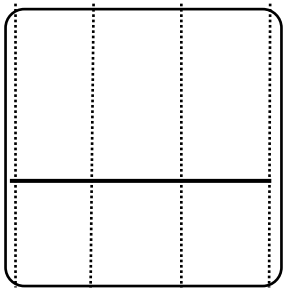
⑪ 92 × 3



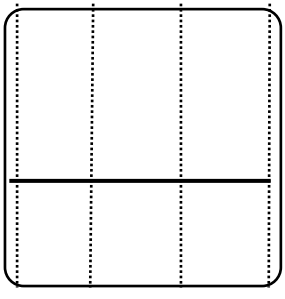
⑫ 52 × 4



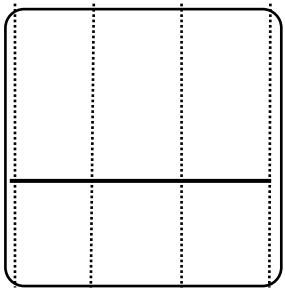
⑬ 63 × 2



⑭ 73 × 3



⑮ 91 × 5



“o” means ● , “t” means × ‘’h means ○.

Let’s calculate this.

54×3

Start multiplying from the numbers at “o”.

h	t	o
	5	4
×		3
	1	2

3 × 4 = ⑫

The multiplication at “o” is 3 × 4 = 12, so we write 2 at “o” and write small 1 at ‘’t’’.

Multiply the numbers at “t”.

h	t	o
	5	4
	×	3
1	6	2

3 × 5 = ⑮

15 + 1 = 16

The multiplication at “t” is 3 × 5 = 15. We add the small 1 to 15, so it is 16. So we write 6 at “t” and 1 at “h”.

	54
×	3
	12
+	150
	162

If we write separately by places, we can find out the answer is made of 12 + 150.

“o” means ● , “t” means × ‘’h means ○.

Let’s calculate this.

$$36 \times 9$$

Start multiplying from the numbers at “o”.

h	t	o
	3	6
×		9
	5	4

9 × 6 = 54

The multiplication at “o” is 9 × 6 = 54, so we write 4 at “o” and write small 5 at ‘’t’’.

Multiply the numbers at “t”.

h	t	o
	3	6
	×	9
	5	
3	2	4

9 × 3 = 27

27 + 5 = 32

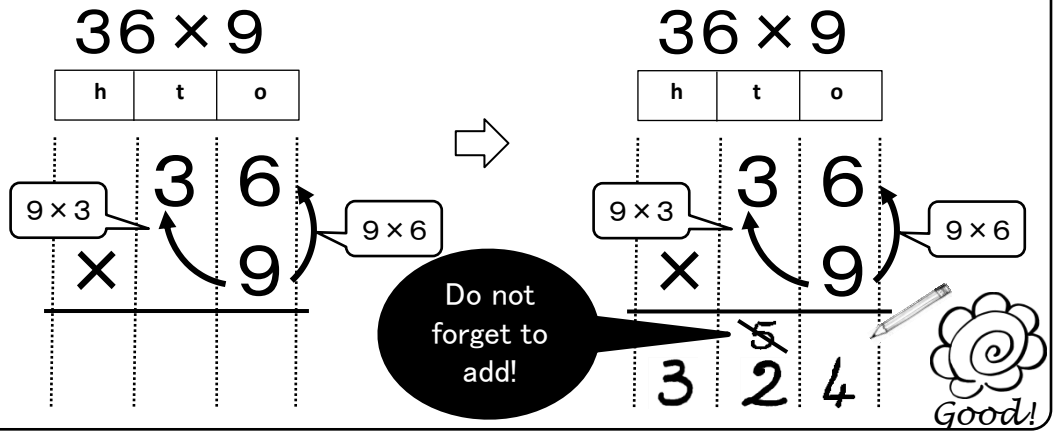
The multiplication at “t” is 9 × 3 = 27. We add the small 5 to 27, so it is 32. So we write 2 at “t” and 3 at “h”.

```
  36
×  9
----
  54
+270
----
 324
```

If we write separately by places, we can find out the answer is made of 54 + 270.

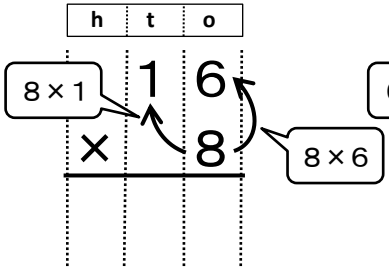
“o” means ● , “t” means × “h means ○.

Example Multiply.

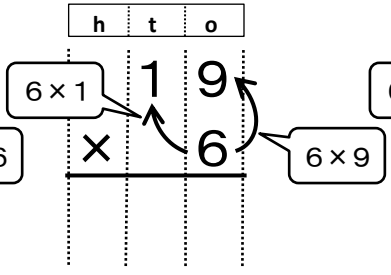


Exercise Multiply.

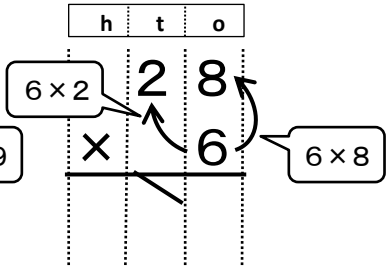
① 16 × 8



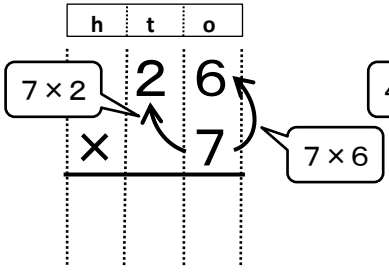
② 19 × 6



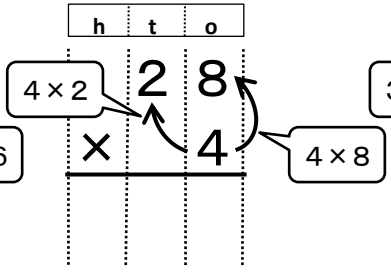
③ 28 × 6



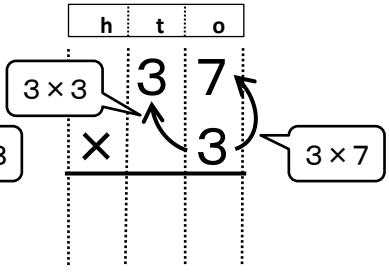
④ 26 × 7



⑤ 28 × 4

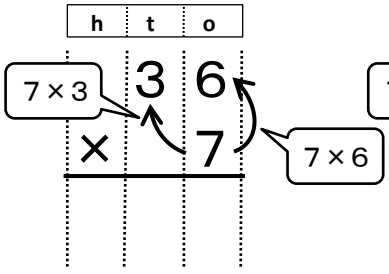


⑥ 37 × 3

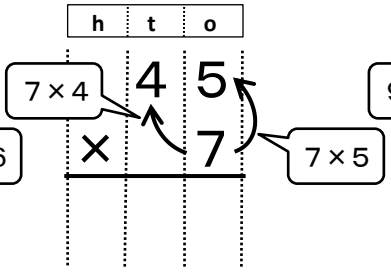


Exercise Multiply.

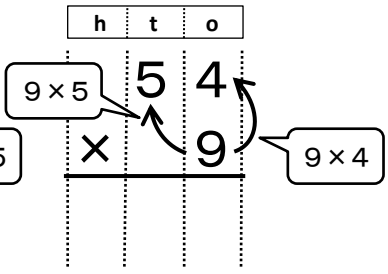
⑦ 36 × 7



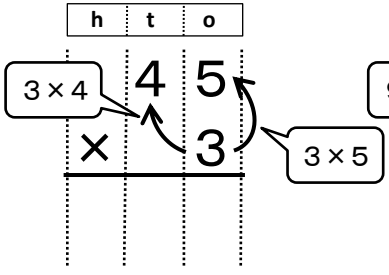
⑧ 45 × 7



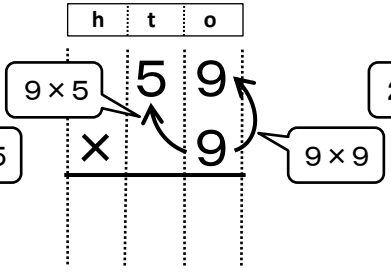
⑨ 54 × 9



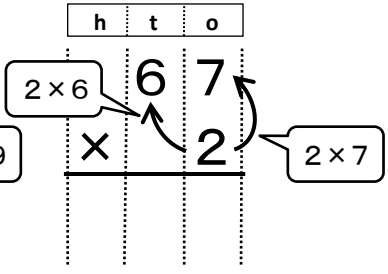
⑩ 45 × 3



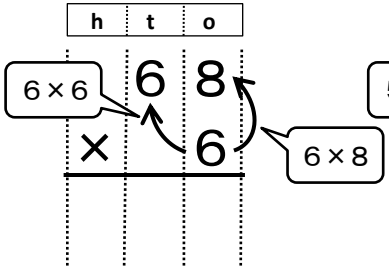
⑪ 59 × 9



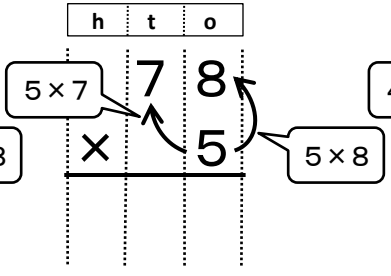
⑫ 67 × 2



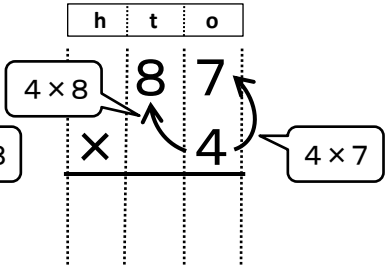
⑬ 68 × 6



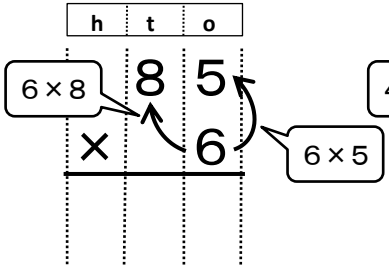
⑭ 78 × 5



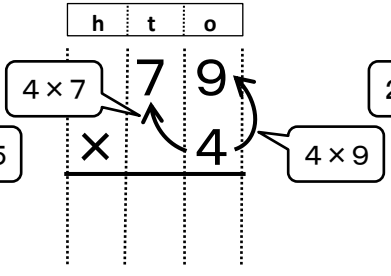
⑮ 87 × 4



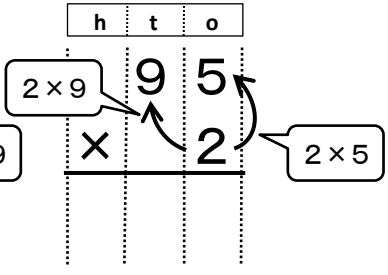
⑯ 85 × 6



⑰ 79 × 4



⑱ 95 × 2

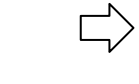


“o” means ●, “t” means × “h means ○.

Example Multiply.

36×9

h	t	o
	3	6
×		9



h	t	o
	3	6
×		9
3	~~5~~ 2	4

Do not forget to add!

Good!

Exercise Multiply.

① 22×6

h	t	o
	2	2
×		6

② 16×7

h	t	o
	1	6
×		7

③ 27×8

h	t	o
	2	7
×		8

④ 35×4

h	t	o
	3	5
×		4

⑤ 35×6

h	t	o
	3	5
×		6

⑥ 45×6

h	t	o
	4	5
×		6

⑦ 48×7

h	t	o
	4	8
×		7

⑧ 54×3

h	t	o
	5	4
×		3

Exercise Multiply.

⑨ 25 × 7

h	t	o
	2	5
×		7

⑩ 32 × 8

h	t	o
	3	2
×		8

⑪ 35 × 5

h	t	o
	3	5
×		5

⑫ 43 × 4

h	t	o
	4	3
×		4

⑬ 59 × 7

h	t	o
	5	9
×		7

⑭ 62 × 8

h	t	o
	6	2
×		8

⑮ 65 × 2

h	t	o
	6	5
×		2

⑯ 69 × 6

h	t	o
	6	9
×		6

⑰ 72 × 5

h	t	o
	7	2
×		5

⑱ 78 × 4

h	t	o
	7	8
×		4

⑲ 77 × 9

h	t	o
	7	7
×		9

⑳ 73 × 7

h	t	o
	7	3
×		7

㉑ 83 × 4

	8	3
×		4

㉒ 86 × 6

	8	6
×		6

㉓ 89 × 8

	8	9
×		8

㉔ 96 × 2

	9	6
×		2

"o" means ●, "t" means × "h means ○.

Example Multiply. Do not forget to write "×".

36×9

h	t	o
	×	

36×9

h	t	o
	3	6
×		9
3	~~5~~ 2	4

Do not forget!

Exercise Multiply. Do not forget to write "×".

① 19×8

h	t	o

② 23×7

h	t	o

③ 24×9

h	t	o

④ 32×6

h	t	o

⑤ 48×3

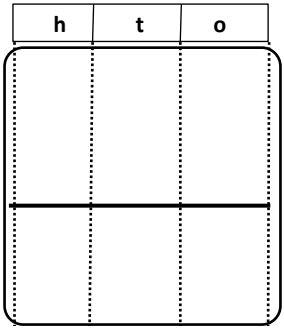
h	t	o

⑥ 37×6

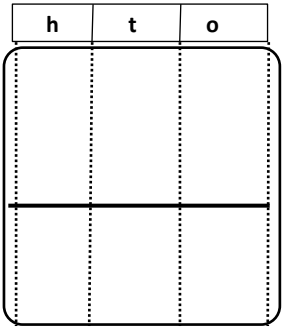
h	t	o

Example Multiply. Do not forget to write " × ".

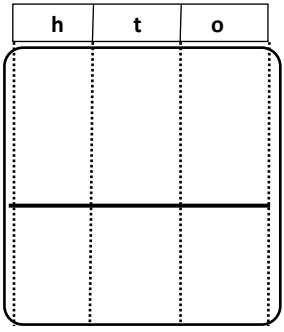
⑦ 46 × 9



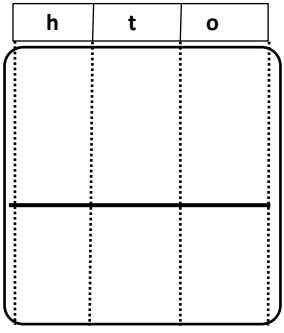
⑧ 57 × 5



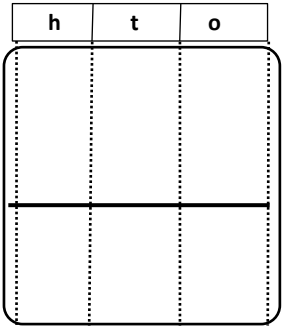
⑨ 66 × 7



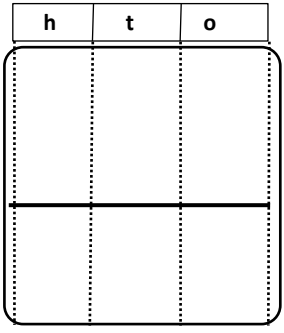
⑩ 58 × 9



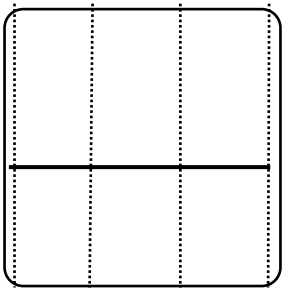
⑪ 64 × 8



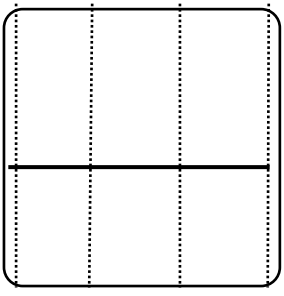
⑫ 75 × 9



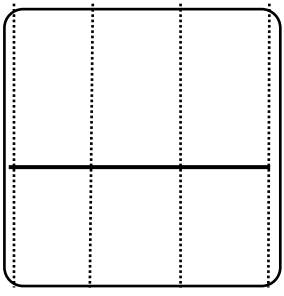
⑬ 78 × 8



⑭ 82 × 6



⑮ 97 × 2



“o” means ●, “t” means × ‘’h means ○.

Let’s calculate this.

59×6

Start multiplying from the numbers at “o”.

h	t	o
	5	9
×		6
	5	4

$6 \times 9 = 54$

The multiplication at “o” is $6 \times 9 = 54$, so we write 4 at “o” and write small 5 at ‘’t’’.

Multiply the numbers at “t”.

h	t	o
	5	9
	×	6
3	5	4

$6 \times 5 = 30$

$30 + 5 = 35$

The multiplication at “t” is $6 \times 5 = 30$. We add the small 5 to 30, so it is 35. So we write 5 at “t” and 3 at “h”.

$$\begin{array}{r} 59 \\ \times\ 6 \\ \hline 54 \\ +\ 300 \\ \hline 354 \end{array}$$

If we write separately by places, we can find out the answer is made of $54 + 300$.

“o” means ● , “t” means × ‘’h means ○.

Let’s calculate this.

$$84 \times 6$$

Start multiplying from the numbers at “o”.

h	t	o
	8	4
×		6
	2	4

$6 \times 4 = 24$

The multiplication at “o” is $6 \times 4 = 24$, so we write 4 at “o” and write small 2 at ‘’t’’.

Multiply the numbers at “t”.

h	t	o
	8	4
	×	6
	2	
5	0	4

$6 \times 8 = 48$

$48 + 2 = 50$

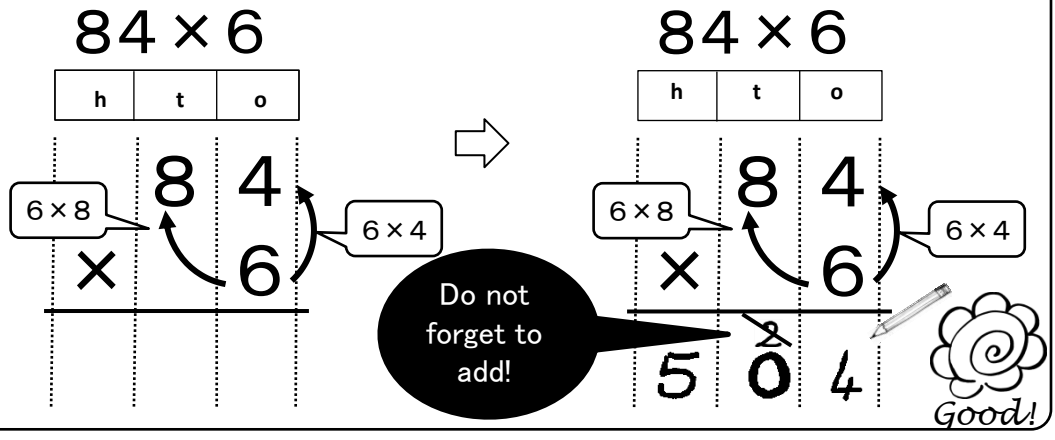
The multiplication at “t” is $6 \times 8 = 48$. We add the small 2 to 48, so it is 50. So we write 0 at “t” and 5 at “h”.

$$\begin{array}{r} 84 \\ \times\ 6 \\ \hline 24 \\ +\ 480 \\ \hline 504 \end{array}$$

If we write separately by places, we can find out the answer is made of $24 + 480$.

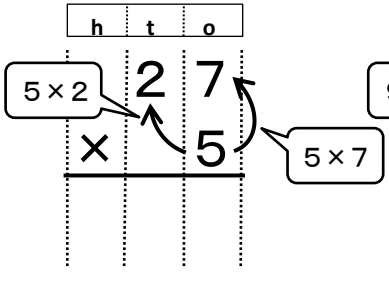
“o” means ● , “t” means × “h means ○.

Example Multiply.

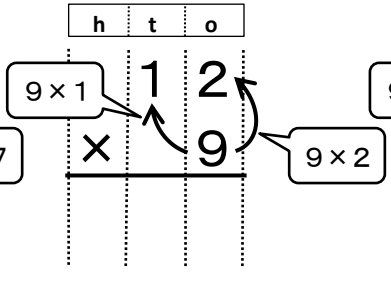


Exercise Multiply.

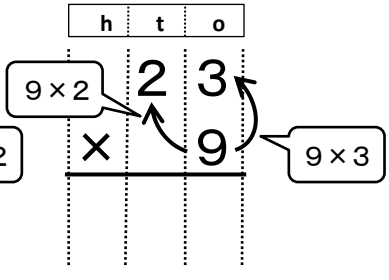
① 27×5



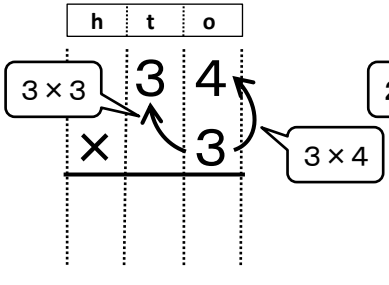
② 12×9



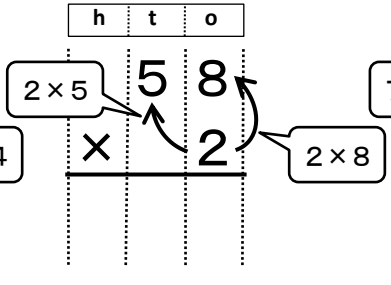
③ 23×9



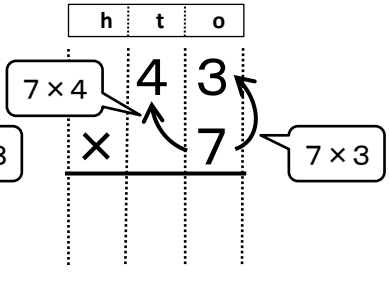
④ 34×3



⑤ 58×2

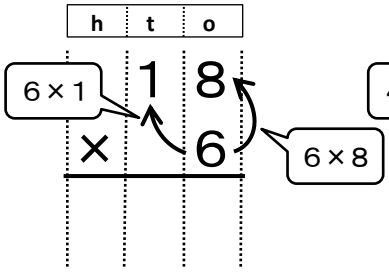


⑥ 43×7

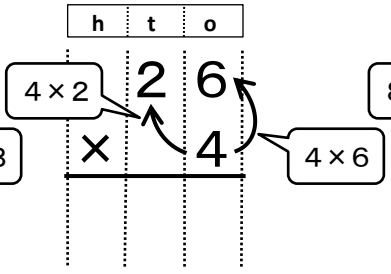


Exercise Multiply.

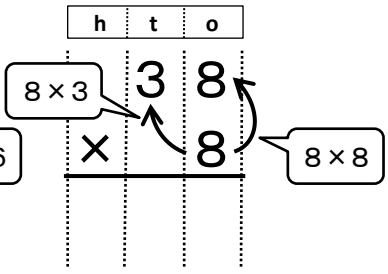
⑦ 18 × 6



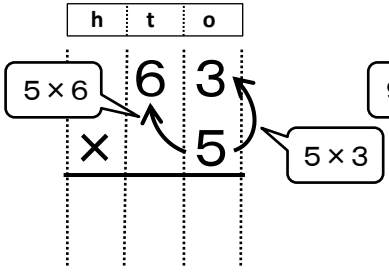
⑧ 26 × 4



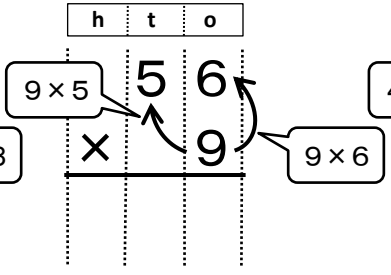
⑨ 38 × 8



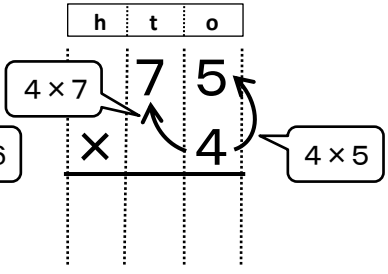
⑩ 63 × 5



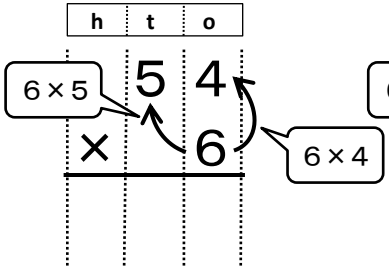
⑪ 56 × 9



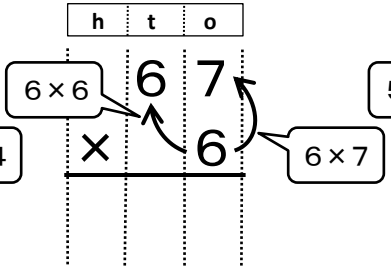
⑫ 75 × 4



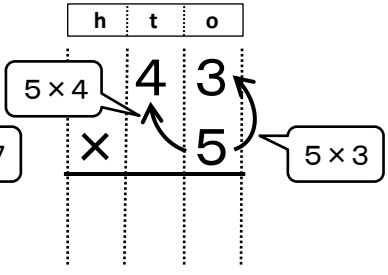
⑬ 54 × 6



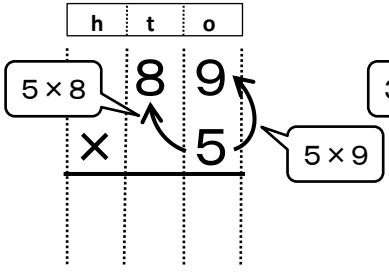
⑭ 67 × 6



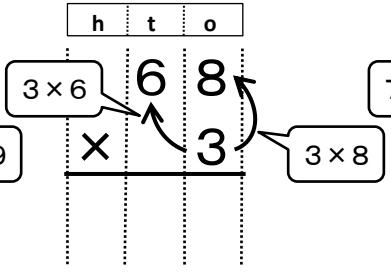
⑮ 43 × 5



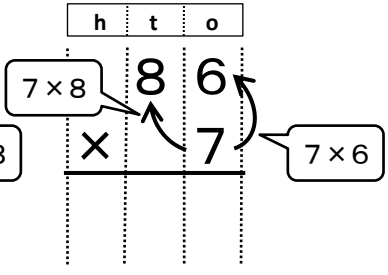
⑯ 89 × 5



⑰ 68 × 3



⑱ 86 × 7

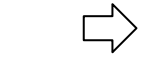


“o” means ●, “t” means ×, “h means ○.

Example Multiply.

84×6

h	t	o
	8	4
×		6



84×6

h	t	o
	8	4
×		6
5	0	4

Do not forget to add!

Good!

Exercise Multiply.

① 15×7

h	t	o
	1	5
×		7

② 26×5

h	t	o
	2	6
×		5

③ 25×8

h	t	o
	2	5
×		8

④ 26×8

h	t	o
	2	6
×		8

⑤ 27×4

h	t	o
	2	7
×		4

⑥ 29×7

h	t	o
	2	9
×		7

⑦ 36×3

h	t	o
	3	6
×		3

⑧ 34×6

h	t	o
	3	4
×		6

Exercise Multiply.

⑨ 47 × 5

h	t	o
	4	7
×		5

⑩ 44 × 7

h	t	o
	4	4
×		7

⑪ 53 × 8

h	t	o
	5	3
×		8

⑫ 58 × 7

h	t	o
	5	8
×		7

⑬ 57 × 2

h	t	o
	5	7
×		2

⑭ 67 × 9

h	t	o
	6	7
×		9

⑮ 69 × 3

h	t	o
	6	9
×		3

⑯ 67 × 5

h	t	o
	6	7
×		5

⑰ 76 × 4

h	t	o
	7	6
×		4

⑱ 72 × 7

h	t	o
	7	2
×		7

⑲ 75 × 8

h	t	o
	7	5
×		8

⑳ 78 × 9

h	t	o
	7	8
×		9

㉑ 76 × 8

	7	6
×		8

㉒ 86 × 5

	8	6
×		5

㉓ 87 × 7

	8	7
×		7

㉔ 89 × 9

	8	9
×		9

“o” means ●, “t” means × “h means ○.

Example Multiply. Do not forget to write “×”.

84×6

h	t	o
	×	

84×6

h	t	o
	8	4
×		6
5	0	4

Do not forget!!

Good!

Exercise Multiply. Do not forget to write “×”.

① 13×8

h	t	o

② 17×6

h	t	o

③ 23×5

h	t	o

④ 25×4

h	t	o

⑤ 34×9

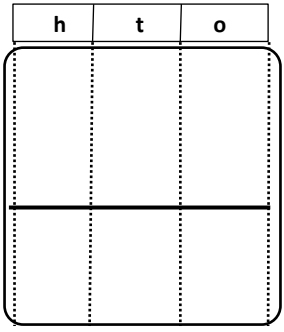
h	t	o

⑥ 35×3

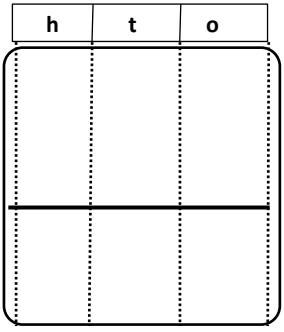
h	t	o

Exercise Multiply. Do not forget to write " × ".

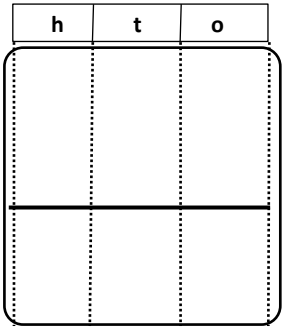
⑦ 46 × 5



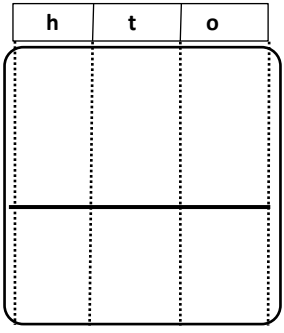
⑧ 45 × 9



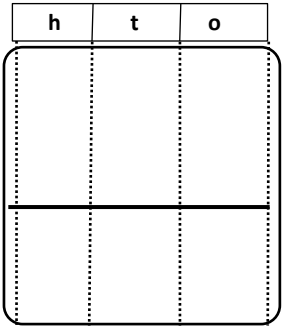
⑨ 52 × 8



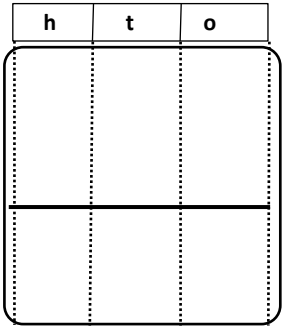
⑩ 56 × 4



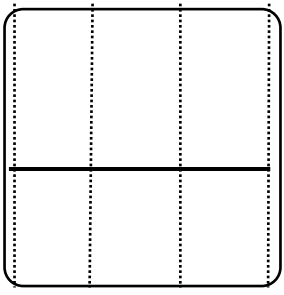
⑪ 67 × 5



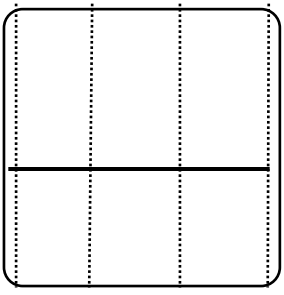
⑫ 77 × 4



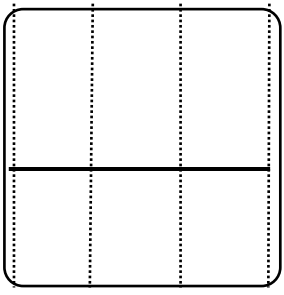
⑬ 67 × 3



⑭ 88 × 8



⑮ 83 × 5



“o” means ●, “t” means ×, ”h” means ○, “th” means □.

Let’s calculate this.

231 × 3

Start multiplying from the numbers at “o”.

th	h	t	o
	2	3	1
×			3
	6	9	3

The multiplication at “o” is 1 × 3 = 3, so we write 3 at “o”.

Multiply the numbers at “t”.

th	h	t	o
	2	3	1
×			3
	6	9	3

The multiplication at “t” is 3 × 3 = 9. So we write 9 at “t”.

Multiply the numbers at “h”.

th	h	t	o
	2	3	1
×			3
	6	9	3

The multiplication at “h” is 3 × 2 = 6. So we write 6 at “h”.

231	
× 3	
3	
90	
+ 600	
693	

If we write separately by places, we can find out the answer is made of 3 + 90 + 600.

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

231 × 3

th	h	t	o
	2	3	1
×			3

231 × 3

th	h	t	o
	2	3	1
×			3
	6	9	3

Good!

Exercise Multiply.

① 312 × 2

th	h	t	o
	3	1	2
×			2

② 123 × 3

th	h	t	o
	1	2	3
×			3

③ 213 × 3

th	h	t	o
	2	1	3
×			3

④ 422 × 2

th	h	t	o
	4	2	2
×			2

⑤ 141 × 2

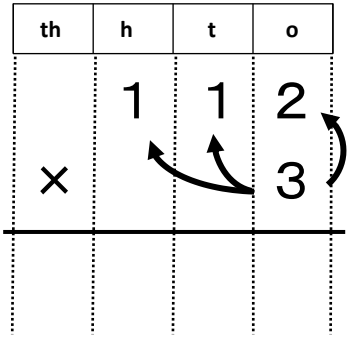
th	h	t	o
	1	4	1
×			2

⑥ 233 × 3

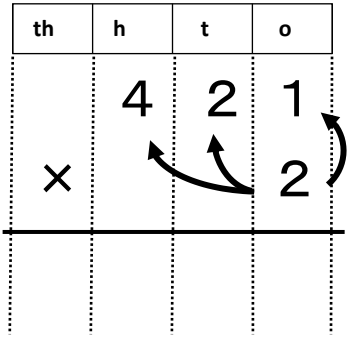
th	h	t	o
	2	3	3
×			3

Exercise Multiply. Do not forget to write " × ".

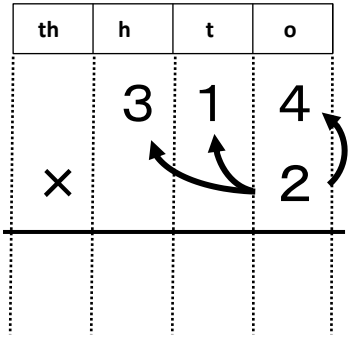
⑦ 112 × 3



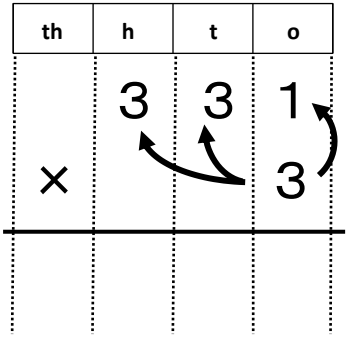
⑧ 421 × 2



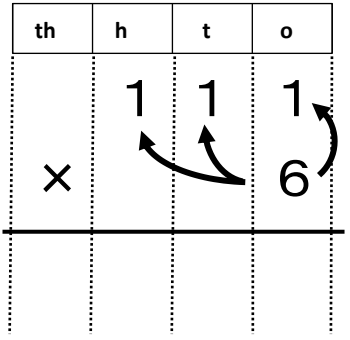
⑨ 314 × 2



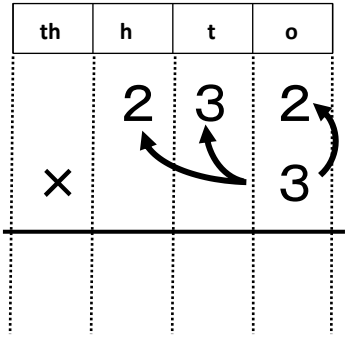
⑩ 331 × 3



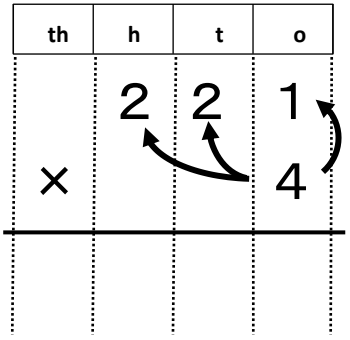
⑪ 111 × 6



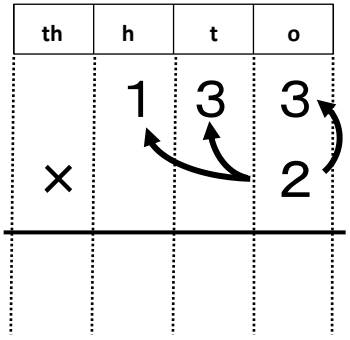
⑫ 232 × 3



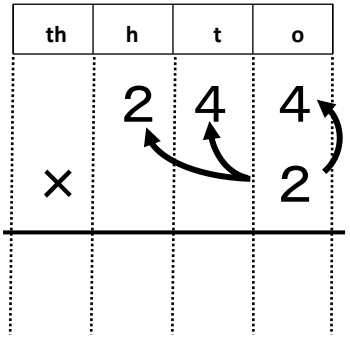
⑬ 221 × 4



⑭ 133 × 2



⑮ 244 × 2

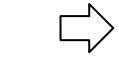


"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

231 × 3

th	h	t	o
	2	3	1
×			3



231 × 3

th	h	t	o
	2	3	1
×			3
	6	9	3

Exercise Multiply.

①112 × 4

th	h	t	o
	1	1	2
×			4

②223 × 2

th	h	t	o
	2	2	3
×			2

③122 × 4

th	h	t	o
	1	2	2
×			4

④332 × 2

	3	3	2
×			2

⑤122 × 3

	1	2	2
×			3

⑥443 × 2

	4	4	3
×			2

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Exercise Multiply. Do not forget to write "×".

231 × 3

th	h	t	o
×			

231 × 3

th	h	t	o
	2	3	1
×			3
	6	9	3

Do not forget!!

Exercise Multiply. Do not forget to write "×".

①313 × 3

th	h	t	o

②212 × 4

th	h	t	o

③122 × 3

th	h	t	o

④431 × 2

th	h	t	o

⑤324 × 2

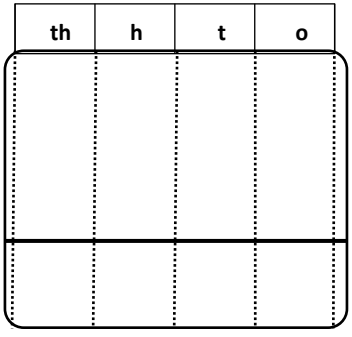
th	h	t	o

⑥134 × 2

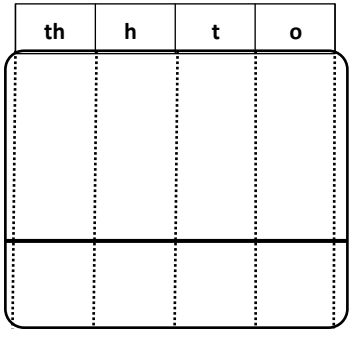
th	h	t	o

Exercise Multiply. Do not forget to write " × ".

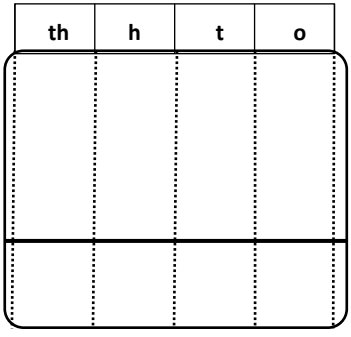
⑦313 × 2



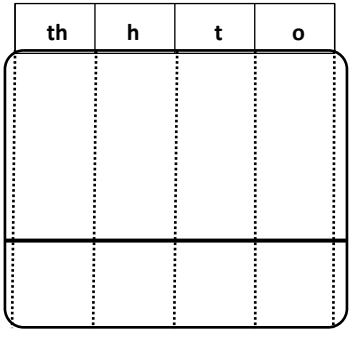
⑧212 × 4



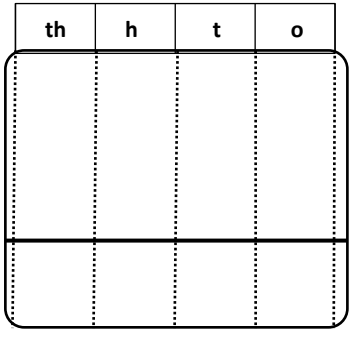
⑨113 × 3



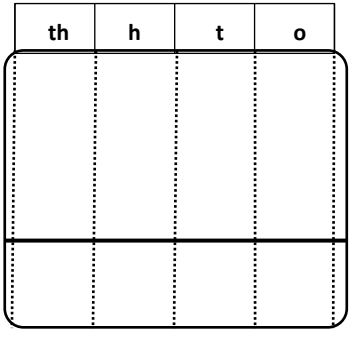
⑩322 × 3



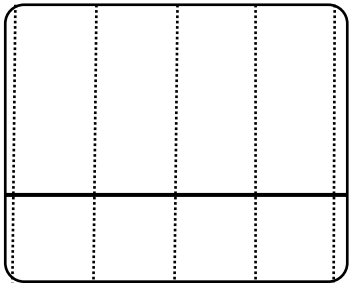
⑪432 × 2



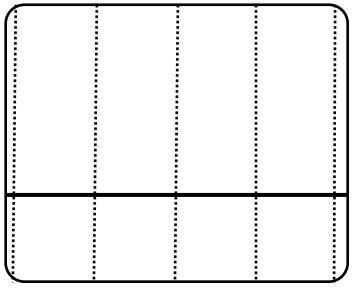
⑫142 × 2



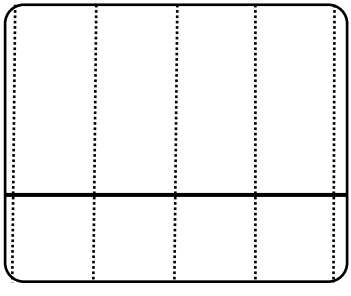
⑬231 × 3



⑭111 × 5



⑮343 × 2



“o” means ●, “t” means ×, ‘‘h” means ○, “th” means □.

Let’s calculate this.

324 × 3

Start multiplying from the numbers at “o”.

th	h	t	o
	3	2	4
×			3
		1	2

The multiplication at “o” is 3 × 4 = 12, so we write 2 at “o” and write small 1 at ‘‘t’’.

Multiply the numbers at “t”.

th	h	t	o
	3	2	4
×			3
		7	2

6 + 1 = 7

The multiplication at “t” is 3 × 2 = 6. We add the small 1 to 6, so it is 7. So we write 7 at “t”.

Multiply the numbers at “h”.

th	h	t	o
	3	2	4
×			3
	9	7	2

The multiplication at “h” is 3 × 3 = 9.. So we write 9 at “t”.

324	
× 3	
12	
60	
+ 900	
972	

If we write separately by places, we can find out the answer is made of 12 + 60 + 800.

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s calculate this.

243 × 3

Start multiplying from the numbers at “o”.

th	h	t	o
	2	4	3
×			3
			9

The multiplication at “o” is 3 × 3＝54, so we write 9 at “o”.

Multiply the numbers at “t”.

th	h	t	o
	2	4	3
×			3
	1		
		2	9

The multiplication at “t” is 3 × 4＝12. So we write 2 at “t” and small 1 at ‘’h’’.

Multiply the numbers at “h”.

th	h	t	o
	2	4	3
×			3
	~~1~~ 7		
		2	9

6＋1＝7

The multiplication at “h” is 3 × 2＝6. We add the small 1 to 6, so it is 7. So we write 7 at “h”.

243
× 3
9
120
＋ 600
729

If we write separately by places, we can find out the answer is made of 8＋120 + 600.

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s calculate this.

278×3

Start multiplying from the numbers at “o”.

th	h	t	o
	2	7	8
×			3
		2	4

The multiplication at “o” is 3×8＝24, so we write 4 at “o” and write small 2 at ‘’t’’.

Multiply the numbers at “t”.

th	h	t	o
	2	7	8
×			3
	2	~~2~~ 3	4

21＋2＝23

The multiplication at “t” is 3×7＝21. We add the small 2 to 21, so it is 23. So we write 3 at “t” and small 2 at ‘’h’’.

Multiply the numbers at “h”.

th	h	t	o
	2	7	8
×			3
	~~2~~ 8	~~2~~ 3	4

6＋2＝8

The multiplication at “h” is 3×2＝6.. We add the small 2 to 6, so it is 8. So we write 8 at “h”.

278	
× 3	
24	
210	
＋ 600	
834	

If we write separately by places, we can find out the answer is made of 24＋210 + 600.

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s calculate this.

138 × 6

Start multiplying from the numbers at “o”.

th	h	t	o
	1	3	8
×			6
		4	
			8

The multiplication at “o” is 6 × 8 = 54, so we write 8 at “o” and write small 4 at ‘’t’’.

Multiply the numbers at “t”.

th	h	t	o
	1	3	8
×			6
	2	~~4~~ 2	8

18 + 4 = 22

The multiplication at “t” is 6 × 3 = 18. We add the small 4 to 18, so it is 22. So we write 2 at “t” and small 2 at ‘’h’’.

Multiply the numbers at “h”.

th	h	t	o
	1	3	8
×			6
	~~2~~ 8	~~4~~ 2	8

6 + 2 = 8

The multiplication at “h” is 6 × 1 = 6.. We add the small 2 to 6, so it is 8. So we write 8 at “h”.

138	
× 6	
48	
180	
+ 600	
828	

If we write separately by places, we can find out the answer is made of 48 + 180 + 600.

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

278 × 3

th	h	t	o
	2	7	8
×			3

278 × 3

th	h	t	o
	2	7	8
×			3
	~~2~~ 8	~~2~~ 3	4

Exercise Multiply.

① 116 × 4

th	h	t	o
	1	1	6
×			4

② 129 × 3

th	h	t	o
	1	2	9
×			3

③ 428 × 2

th	h	t	o
	4	2	8
×			2

④ 141 × 7

th	h	t	o
	1	4	1
×			7

⑤ 232 × 4

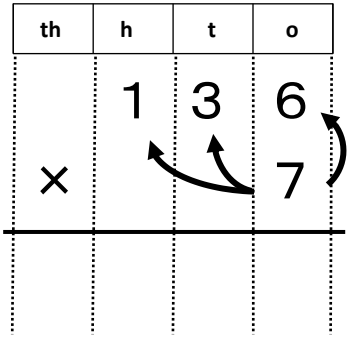
th	h	t	o
	2	3	2
×			4

⑥ 263 × 3

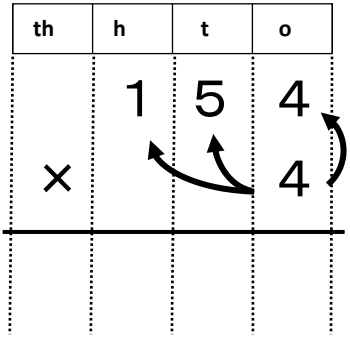
th	h	t	o
	2	6	3
×			3

Exercise Multiply. Do not forget to write " × ".

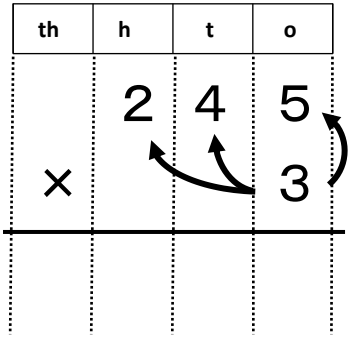
⑦ 136 × 7



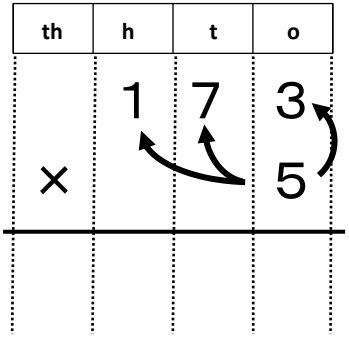
⑧ 154 × 4



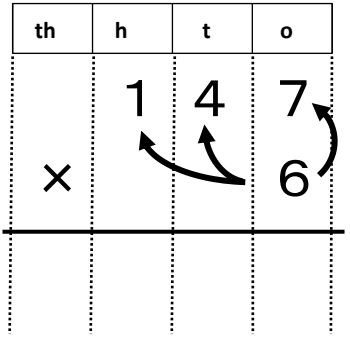
⑨ 245 × 3



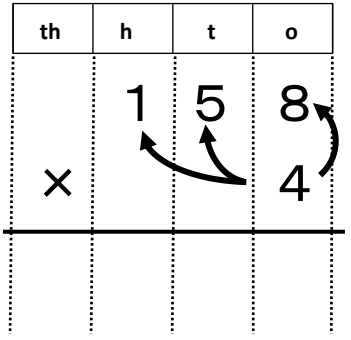
⑩ 173 × 5



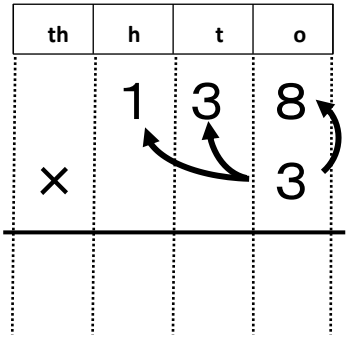
⑪ 147 × 6



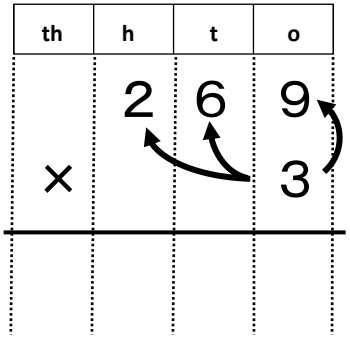
⑫ 158 × 4



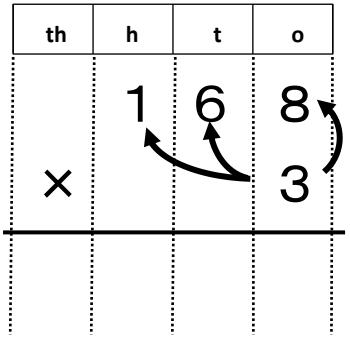
⑬ 138 × 3



⑭ 269 × 3



⑮ 168 × 3



"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

278 × 3

th	h	t	o
	2	7	8
×			3

278 × 3

th	h	t	o
	2	7	8
×			3
	2	3	4

Exercise Multiply.

①116 × 5

th	h	t	o
	1	1	6
×			5

②217 × 4

th	h	t	o
	2	1	7
×			4

③325 × 2

th	h	t	o
	3	2	5
×			2

④151 × 6

th	h	t	o
	1	5	1
×			6

⑤283 × 3

th	h	t	o
	2	8	3
×			3

⑥391 × 2

th	h	t	o
	3	9	1
×			2

Exercise Multiply. Do not forget to write " × ".

⑦ 125 × 7

th	h	t	o
	1	2	5
×			7

⑧ 132 × 6

th	h	t	o
	1	3	2
×			6

⑨ 243 × 4

th	h	t	o
	2	4	3
×			4

⑩ 239 × 3

th	h	t	o
	2	3	9
×			3

⑪ 137 × 6

th	h	t	o
	1	3	7
×			6

⑫ 178 × 4

th	h	t	o
	1	7	8
×			4

⑬ 189 × 4

	1	8	9
×			4

⑭ 386 × 2

	3	8	6
×			2

⑮ 172 × 5

	1	7	2
×			5

“o” means ●, “t” means ×, ”h” means ○, “th” means □.

Example Multiply. Do not forget to write “×”.

278×3

th	h	t	o
×			

278×3

th	h	t	o
	2	7	8
×			3
	2 8	2 3	4

Do not forget!

Good!

Exercise Multiply. Do not forget to write “×”.

①112×8

th	h	t	o

②123×4

th	h	t	o

③114×6

th	h	t	o

④262×2

th	h	t	o

⑤242×3

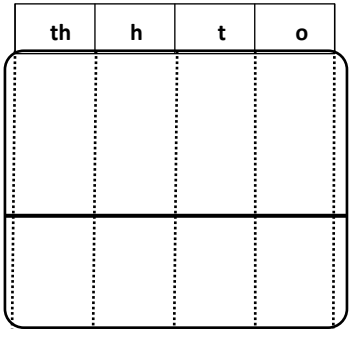
th	h	t	o

⑥171×4

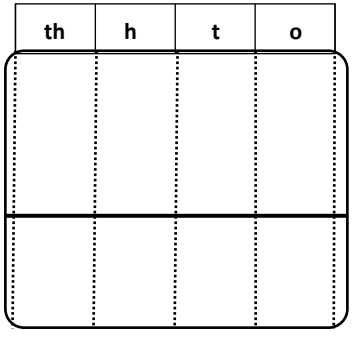
th	h	t	o

Exercise Multiply. Do not forget to write " × ".

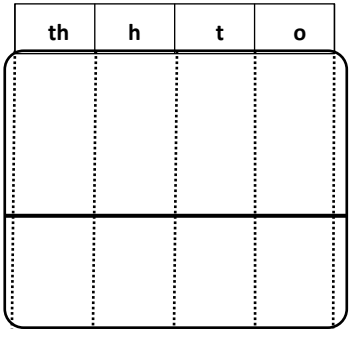
⑦138 × 4



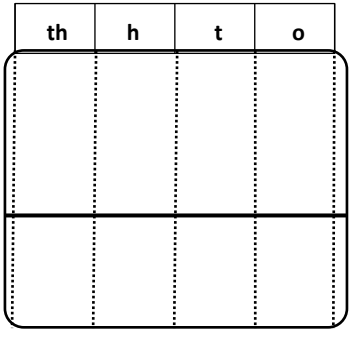
⑧157 × 5



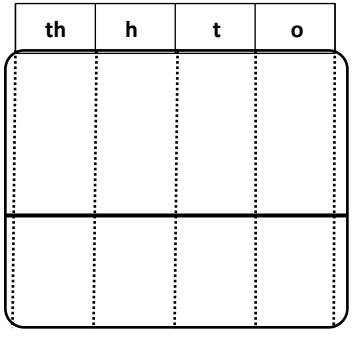
⑨166 × 3



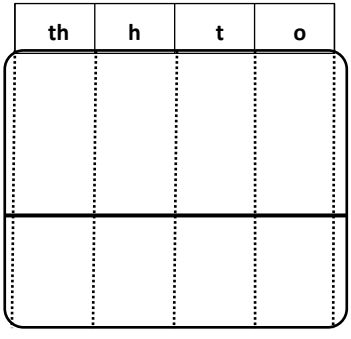
⑩129 × 4



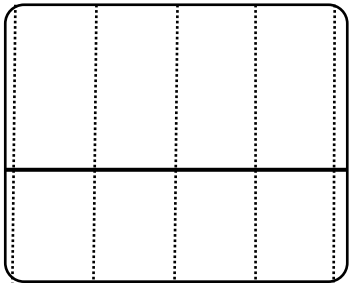
⑪139 × 6



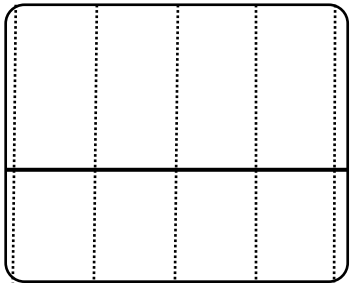
⑫238 × 3



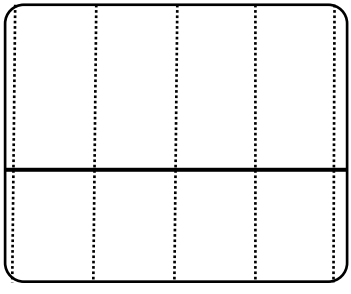
⑬258 × 3



⑭367 × 2



⑮475 × 2



“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s calculate this.

432 × 3

Start multiplying from the numbers at “o”.

th	h	t	o
	4	3	2
×			3
			6

The multiplication at “o” is 2 × 3 = 6, so we write 6 at “o”.

Multiply the numbers at “t”.

th	h	t	o
	4	3	2
×			3
		9	6

The multiplication at “t” is 3 × 3 = 9. So we write 9 at “t”.

Multiply the numbers at “h”.

th	h	t	o
	4	3	2
×			3
1	2	9	6

The multiplication at “h” is 3 × 4 = 12. So we write 2 at “h” and 1 at ‘’th’’.

432	
× 3	
6	
90	
+ 1200	
1296	

If we write separately by places, we can find out the answer is made of 6 + 80 + 1200.

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s calculate this.

692×3

Start multiplying from the numbers at “o”.

th	h	t	o
	6	9	2
×			3
			6

The multiplication at “o” is 2 × 3 = 6, so we write 6 at “o”.

Multiply the numbers at “t”.

th	h	t	o
	6	9	2
×			3
	2	7	6

The multiplication at “t” is 3 × 9 = 27.
So we write 7 at “t” and small 2 at ‘’h’’.

Multiply the numbers at “h”.

th	h	t	o
	6	9	2
×			3
2	0	7	6

18 + 2 = 20

The multiplication at “h” is 3 × 6 = 18.. We add the small 2 to 18, so it is 20. So we write 0 at “h” and 2 at ‘’th’’.

$$\begin{array}{r} 692 \\ \times\ 3 \\ \hline 6 \\ 270 \\ +\ 1800 \\ \hline 2076 \end{array}$$

If we write separately by places, we can find out the answer is made of 6 + 270 + 1800.

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s calculate this.

387×6

Start multiplying from the numbers at “o”.

th	h	t	o
	3	8	7
×			6
		4	2

The multiplication at “o” is 6×7＝42, so we write 6 at “o” and small 4 at ‘’t’’.

Multiply the numbers at “t”.

th	h	t	o
	3	8	7
×			6
	5	4	2

48＋4＝52

The multiplication at “t” is 6×8＝48. We add small 4 to 48, so it is 52. So we write 2 at “t” and 5 at ‘’h’’.

Multiply the numbers at “h”.

th	h	t	o
	3	8	7
×			6
2	3	2	2

18＋5＝23

The multiplication at “h” is 6×3＝18.. We add the small 5 to 18, so it is 23. So we write 3 at “h” and 2 at ‘’th’’.

387	
× 6	
42	
480	
＋1800	
2322	

If we write separately by places, we can find out the answer is made of 42＋480 + 1800.

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

387 × 6

th	h	t	o
	3	8	7
×			6

387 × 6

th	h	t	o
	3	8	7
×			6
2	~~5~~ 3	~~4~~ 2	2

Exercise Multiply.

①613 × 2

th	h	t	o
	6	1	3
×			2

②523 × 3

th	h	t	o
	5	2	3
×			3

③412 × 3

th	h	t	o
	4	1	2
×			3

④341 × 7

th	h	t	o
	3	4	1
×			7

⑤232 × 6

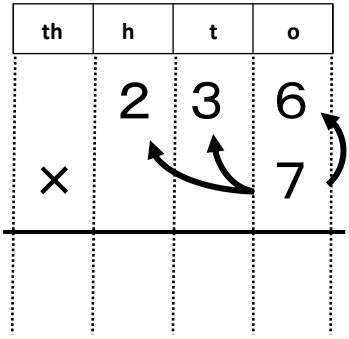
th	h	t	o
	2	3	2
×			6

⑥363 × 3

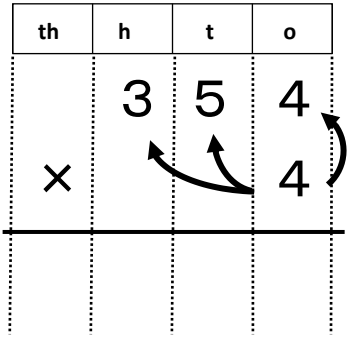
th	h	t	o
	3	6	3
×			3

Exercise Multiply. Do not forget to write " × ".

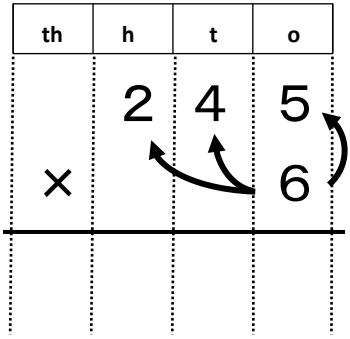
⑦ 236 × 7



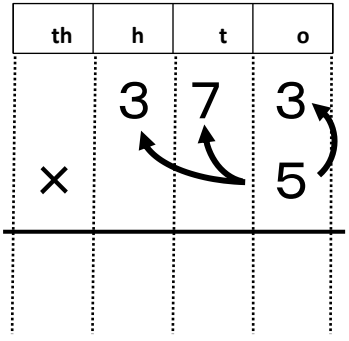
⑧ 354 × 4



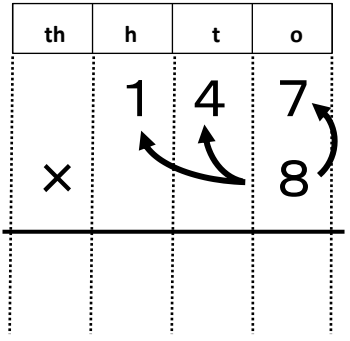
⑨ 245 × 6



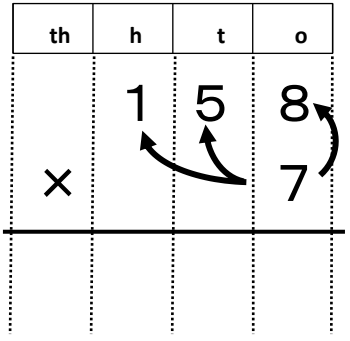
⑩ 373 × 5



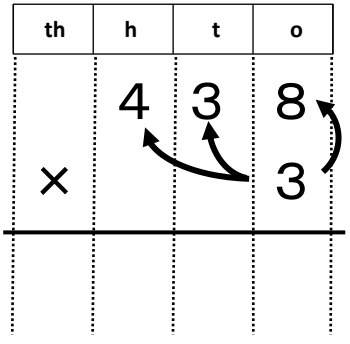
⑪ 147 × 8



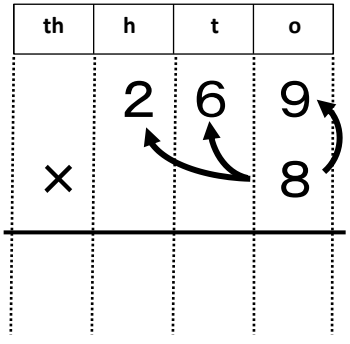
⑫ 158 × 7



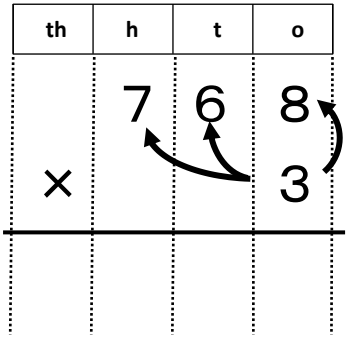
⑬ 438 × 3



⑭ 269 × 8



⑮ 768 × 3



"o" means ●, "t" means ×, "h" means ○, "th" means □.

Exercise Multiply.

387×6

th	h	t	o
	3	8	7
×			6

387×6

th	h	t	o
	3	8	7
×			6
2	~~4~~ 3	~~3~~ 2	2

Exercise Multiply.

①$723 \times 2$

th	h	t	o
	7	2	3
×			2

②$412 \times 4$

th	h	t	o
	4	1	2
×			4

③$932 \times 2$

th	h	t	o
	9	3	2
×			2

④$151 \times 9$

th	h	t	o
	1	5	1
×			9

⑤$283 \times 4$

th	h	t	o
	2	8	3
×			4

⑥$391 \times 6$

th	h	t	o
	3	9	1
×			6

Exercise Multiply. Do not forget to write " × ".

⑦ 325 × 7

th	h	t	o
	3	2	5
×			7

⑧ 132 × 8

th	h	t	o
	1	3	2
×			8

⑨ 643 × 4

th	h	t	o
	6	4	3
×			4

⑩ 439 × 3

th	h	t	o
	4	3	9
×			3

⑪ 137 × 9

th	h	t	o
	1	3	7
×			9

⑫ 378 × 4

th	h	t	o
	3	7	8
×			4

⑬ 189 × 6

	1	8	9
×			6

⑭ 386 × 8

	3	8	6
×			8

⑮ 172 × 9

	1	7	2
×			9

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply. Do not forget to write " × ".

387 × 6

th	h	t	o
×			

387 × 6

th	h	t	o
	3	8	7
×			6
2	~~5~~ 3	~~4~~ 2	2

Do not forget!

Exercise Multiply. Do not forget to write " × ".

①631 × 2

th	h	t	o

②824 × 2

th	h	t	o

③734 × 2

th	h	t	o

④462 × 3

th	h	t	o

⑤742 × 3

th	h	t	o

⑥171 × 9

th	h	t	o

Exercise Multiply. Do not forget to write " × ".

⑦238 × 6

th	h	t	o

⑧357 × 5

th	h	t	o

⑨466 × 3

th	h	t	o

⑩129 × 8

th	h	t	o

⑪439 × 6

th	h	t	o

⑫238 × 5

th	h	t	o

⑬258 × 7

⑭367 × 4

⑮675 × 2

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s calculate this.

703×6

Start multiplying from the numbers at “o”.

th	h	t	o
	7	0	3
×			6
		1	8

The multiplication at “o” is 6×3＝18, so we write 8 at “o” and small 1 at ‘’t’’.

Multiply the numbers at “t”.

th	h	t	o
	7	0	3
×			6
		1	8

The multiplication at “t” is 6×0＝0. We add 1 to 0, so it is 1. So we write 1 at “t”.

Multiply the numbers at “h”.

th	h	t	o
	7	0	3
×			6
4	2	1	8

The multiplication at “h” is 6×7＝42.. So we write 2 at “h” and 4 at ‘’th’’.

703	
× 6	
18	
0	
+ 4200	
4218	

If we write separately by places, we can find out the answer is made of 18＋0 ＋ 4200.

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s calculate this.

270×8

Start multiplying from the numbers at “o”.

th	h	t	o
	2	7	0
×			8
			0

The multiplication at “o” is 8×0＝6, so we write 0 at “o”.

Multiply the numbers at “t”.

th	h	t	o
	2	7	0
×			8
	5	6	0

The multiplication at “t” is 8×7＝56. So we write 6 at “t” and small 5 at ‘’h’’.

Multiply the numbers at “h”.

th	h	t	o
	2	7	0
×			8
2	1	6	0

5

16+5=21

The multiplication at “h” is 8×2＝16.. We add 5 to 16, so it is 21. So we write 1 at “h” and 2 at ‘’th’’.

270	
× 8	
0	
560	
+ 1600	
2160	

If we write separately by places, we can find out the answer is made of 0＋560 + 1600.

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

703 × 6

th	h	t	o
	7	0	3
×			6

703 × 6

th	h	t	o
	7	0	3
×			6
	4	2	1 8

Exercise Multiply.

①320 × 8

th	h	t	o
	3	2	0
×			8

②540 × 3

th	h	t	o
	5	4	0
×			3

③410 × 6

th	h	t	o
	4	1	0
×			6

④301 × 7

th	h	t	o
	3	0	1
×			7

⑤204 × 6

th	h	t	o
	2	0	4
×			6

⑥609 × 8

th	h	t	o
	6	0	9
×			8

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Example Multiply.

703 × 6

th	h	t	o
	7	0	3
×			6

703 × 6

th	h	t	o
	7	0	3
×			6
4	2	1	8

Exercise Multiply.

①730 × 2

th	h	t	o
	7	3	0
×			2

②670 × 4

th	h	t	o
	6	7	0
×			4

③930 × 7

th	h	t	o
	9	3	0
×			7

④505 × 8

	5	0	5
×			8

⑤608 × 4

	6	0	8
×			4

⑥307 × 6

	3	0	7
×			6

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply. Do not forget to write "×".

703×6

th	h	t	o
×			

703×6

th	h	t	o
	7	0	3
×			6
4	2	1	8

Do not forget!!

Good!

Exercise Multiply. Do not forget to write "×".

①680×4

th	h	t	o

②820×3

th	h	t	o

③790×6

th	h	t	o

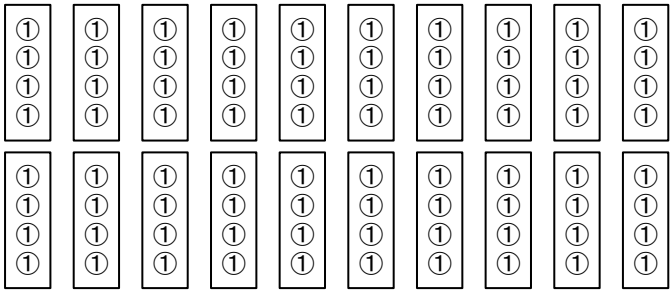
④402×3

⑤702×3

⑥503×9

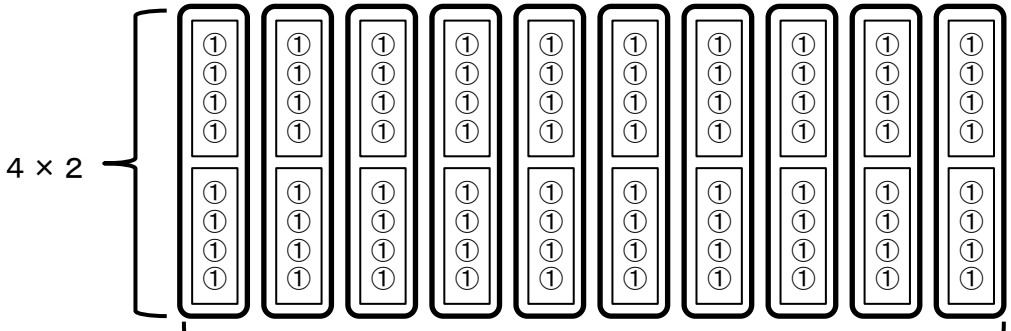
Let's find out the answer of 4 × 20.

$4 \times 20 = \square$



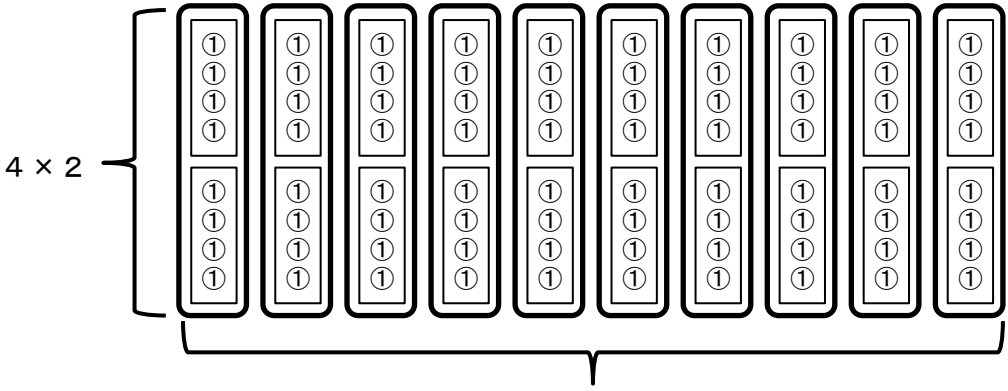
4 × 20 means 20 groups of 4.

If we make a pair of 4, there are 10 groups.
Let's find out the total number by multiplication.



$(4 \times 2) \times 10 = \square$

The (4 × 2) means we have to calculate inside the ( ) first.



$(4 \times 2) \times 10 =$ 80

Good!

$(4 \times 2) \times 10 = 4 \times 20$

$4 \times 20 =$ ____

(4 × 2) × 10 and 4 × 20 are the same number.

$(4 \times 2) \times 10 = 4 \times 20$

$4 \times 20 =$ 80

Good!

Let's compare 4 × 20 and 4 × 2.

$4 \times 20 = 80$

$4 \times 2 = 8$

The answer of 4 × 20 is the same as the number which right 0 at "o" of 4 × 2.

Let's find the answer of 14 × 20 by using the answer of 14 × 2.

$14 \times 2 =$ ☐

$14 \times 20 =$ ☐

First, find the answer of 14 × 2.

Let's find the answer of 14 × 2.

$14 \times 2 =$ ☐

$14 \times 20 =$ ☐

	1	4
×		2
	☐	

$14 \times 2 = 28$

$14 \times 20 =$ ☐

	1	4
×		2
	2	8

Good!

14 × 20 is a number with 0 at the 2 of 14 × 2.

$14 \times 2 = 28$

$14 \times 20 = 280$

Good!

Put a 0 to the answer of 14 × 2.

Let's find the answer of 30 × 20 by using the answer of 30 × 2.

$30 \times 2 =$ ☐

$30 \times 20 =$ ☐

First, find the answer of 30 × 2.

We can easily find the answer of 30 × 2 because it is 2 sets of 30.

$30 \times 2 =$ 60

$30 \times 20 =$ ☐

Good!

30 × 20 is a number with 0 at the 2 of 30 × 2.

$30 \times 2 =$ 60

$30 \times 20 =$ 600

Good!

Let's compare the 3 number sentences.

$3 \times 2 = 6$ 0が0個

$30 \times 2 = 60$ 0が1個

$30 \times 20 = 600$ 0が2個

If the 3 × 2 is the same, we put 0 as many as the number of 0.

Example Multiply.

$30 \times 20 = 600$

Exercise Multiply.

① $9 \times 30 =$ ☐

② $3 \times 50 =$ ☐

③ $6 \times 80 =$ ☐

④ $4 \times 70 =$ ☐

⑤ $22 \times 30 =$ ☐

⑥ $38 \times 20 =$ ☐

⑦ $12 \times 50 =$ ☐

⑧ $27 \times 20 =$ ☐

⑨ $32 \times 40 =$ ☐

⑩ $53 \times 30 =$ ☐

⑪ $30 \times 30 =$ ☐

⑫ $20 \times 40 =$ ☐

⑬ $20 \times 50 =$ ☐

⑭ $60 \times 20 =$ ☐

⑮ $40 \times 30 =$ ☐

⑯ $30 \times 70 =$ ☐

Let's find the answer of 12 × 23.

Multiplication of big numbers.

$12 \times 23 =$ ☐

Let's split the 23 into two numbers.

t	o
2	3

Split 23 into the numbers of "t" and "o".

12 × 23

- 12 × 20 = ☐
- 12 × 3 = ☐

In total ☐

12 × 23

- 12 × 20 = 240
- 12 × 3 = 36

In total 276

Good!

$12 \times 23 =$ 276

Good!

We can multiply even if the number of the bottom of multiplication is bigger by splitting the number separately by their places.

“o” means ● , “t” means × ‘’h” means ○.

Let’s multiply 12 × 23 by vertical method.

12×23

Start multiplying from the numbers align to “o” .

h	t	o
	1	2
×	2	3
	3	6

3 × 1 = ③

3 × 2 = ⑥

The multiplication of “o” is 12 × 3, so they are 3 × 2 = 6 and 3 × 1 = 3 sets of ⑩.

We write the multiplication of “t” align to “t”.

Multiply the numbers align to “t”.

h	t	o
	1	2
×	2	3
	3	6
2	4	

2 × 1 = ②

2 × 2 = ④

We have 2 × 1 = 2 sets of ⑩⓪ and 2 × 2 = ④ sets of 10 at “t”.

“o” means ● , “t” means × ‘’h” means ○.

Let’s go on the calculation.

12×23

Add the numbers of the top and bottom to get the answer.

	h	t	o
		1	2
×		2	3
		3	6
+	2	4	
	2	7	6

In a vertical multiplication, we calculate each places separately and add later.

12
× 23
6
30
40
+200
276

If we write separately by places, we can find out the answer is made of 6＋30＋40＋200.

“o” means ● , “t” means × “h” means ○.

Let’s multiply 16 × 35 by vertical method.

16×35

Start multiplying from the numbers align to “o” .

h	t	o
	1	6
×	3	5
3	8	0

5 × 1 = ⑤

5 × 6 = ③⓪

5+3=8

The multiplication of “o” is 16 × 5, so they are 5 × 2 =6 and 5 × 1 = 5 sets of ⑩.

Multiply the numbers align to “t”.

h	t	o
	1	6
×	3	5
3	8	0
1	4	8

3 × 1 = ③

3 × 6 = ①⑧

3+1=4

The multiplication of “t” is 16 × 30, so they are 3 × 6 = 18 sets of ⑩ and 3 × 1 = 3 sets of ⑩⓪ .

“o” means ● , “t” means × ‘’h” means ○.

Let’s go on the calculation.

16×35

Add the numbers of the top and bottom to get the answer.

We do not forget the number we have carried by writing it in small size.

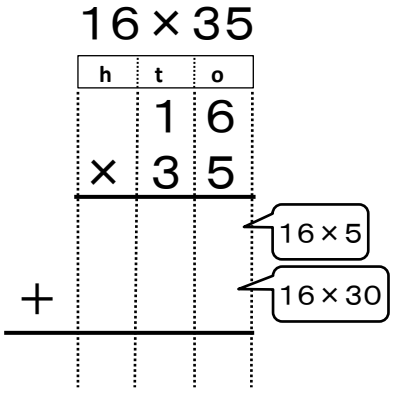
	h	t	o
		1	6
×		3	5
	1	8	0
+		4	8
	5	6	0

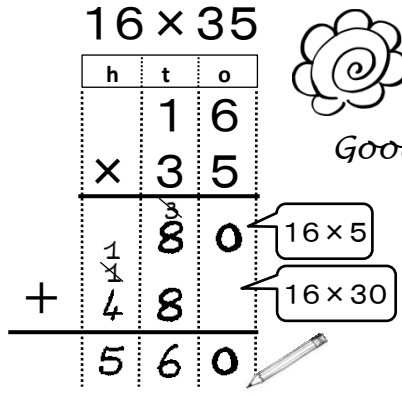
```
  16
× 35
----
  30
  50
 180
+300
----
 560
```

If we write separately by places, we can find out the answers is made of 30＋50＋180＋300.

“o” means ● , “t” means × “h” means ○.

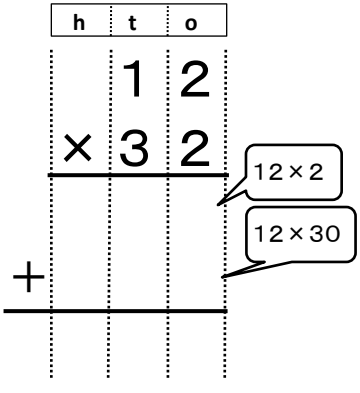
Example Multiply.



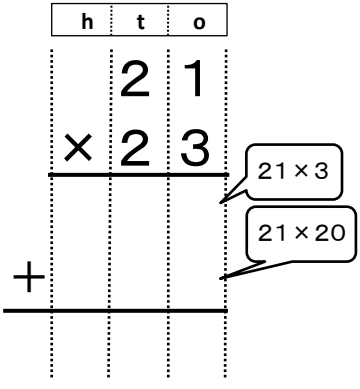


Exercise Multiply.

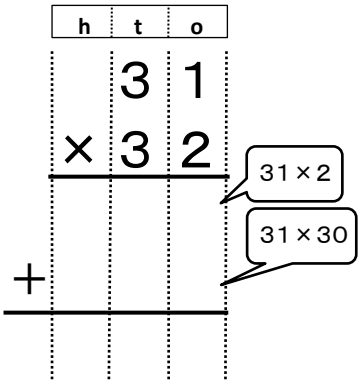
① 12×32



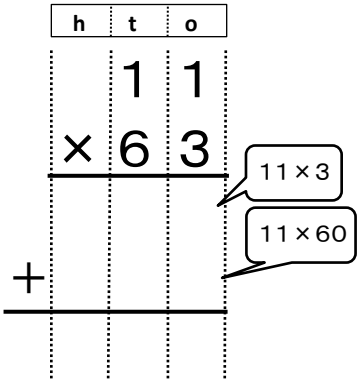
② 21×23



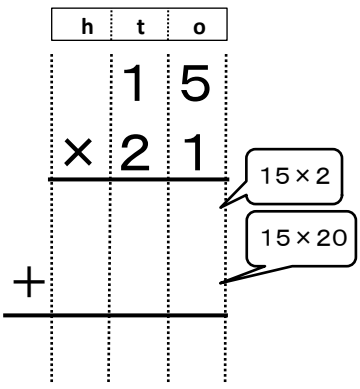
③ 31×32



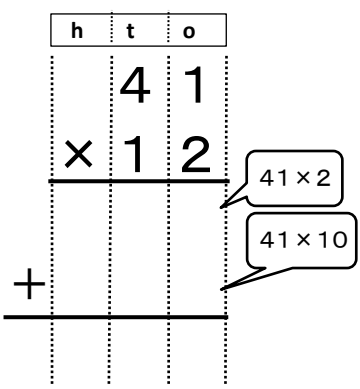
④ 11×63



⑤ 15×21

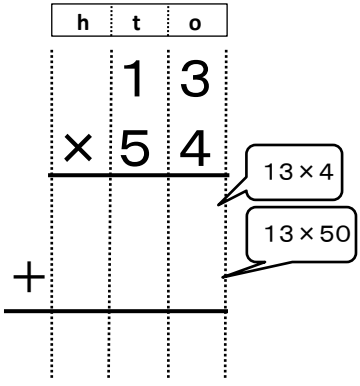


⑥ 41×12

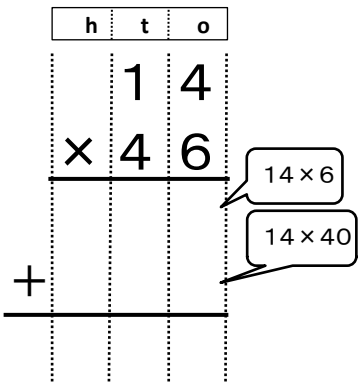


Exercise Multiply.

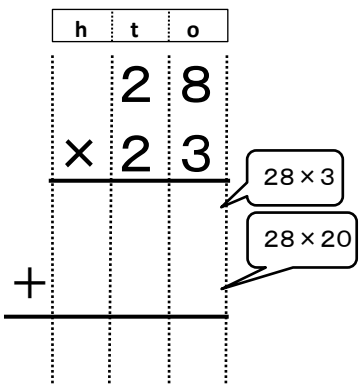
⑦ 13×54



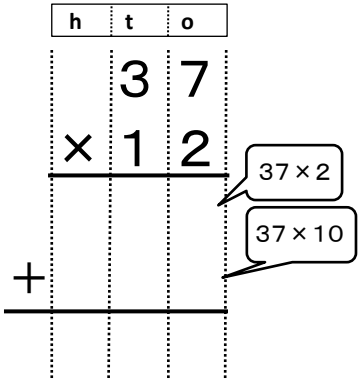
⑧ 14×46



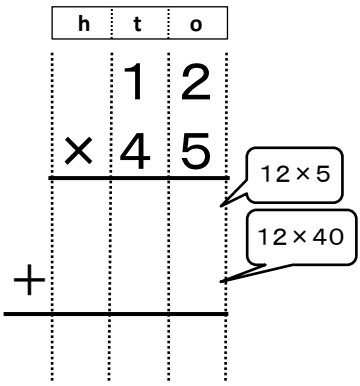
⑨ 28×23



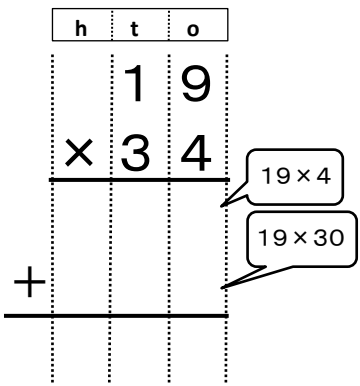
⑩ 37×12



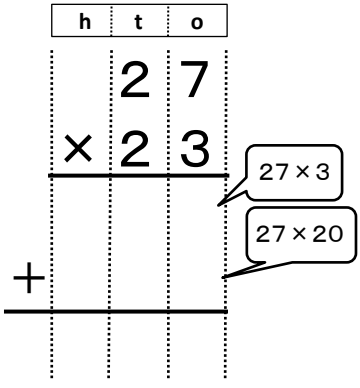
⑪ 12×45



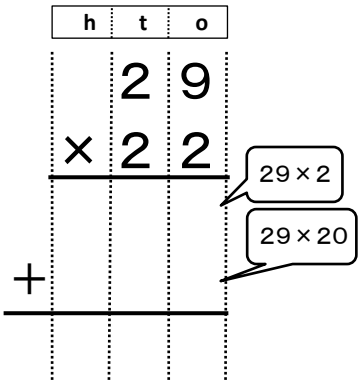
⑫ 19×34



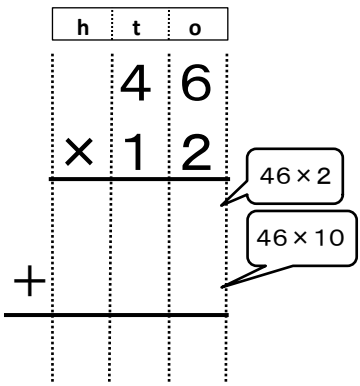
⑬ 27×23



⑭ 29×22



⑮ 46×12



T26_S11

"o" means ●, "t" means × "h" means ○.

Example Multiply.

16 × 35

h	t	o
	1	6
×	3	5
+		

16 × 35

h	t	o
	1	6
×	3	5
	8	0
+	4	8
	5	6

Exercise Multiply.

① 23 × 13

h	t	o
	2	3
×	1	3
+		

② 41 × 21

h	t	o
	4	1
×	2	1
+		

③ 32 × 21

h	t	o
	3	2
×	2	1
+		

④ 11 × 52

h	t	o
	1	1
×	5	2
+		

⑤ 16 × 25

h	t	o
	1	6
×	2	5
+		

⑥ 14 × 37

h	t	o
	1	4
×	3	7
+		

⑦ 39 × 12

h	t	o
	3	9
×	1	2
+		

⑧ 12 × 48

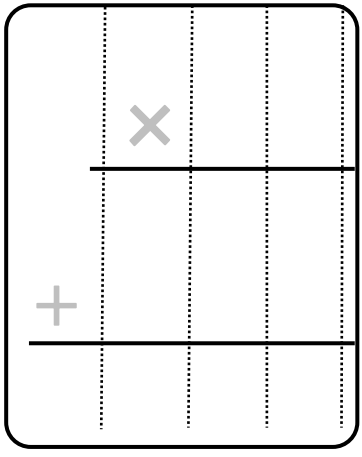
h	t	o
	1	2
×	4	8
+		

“o” means ●, “t” means × “h” means ○.

Example Multiply. Do not forget to write “×” and “＋”.

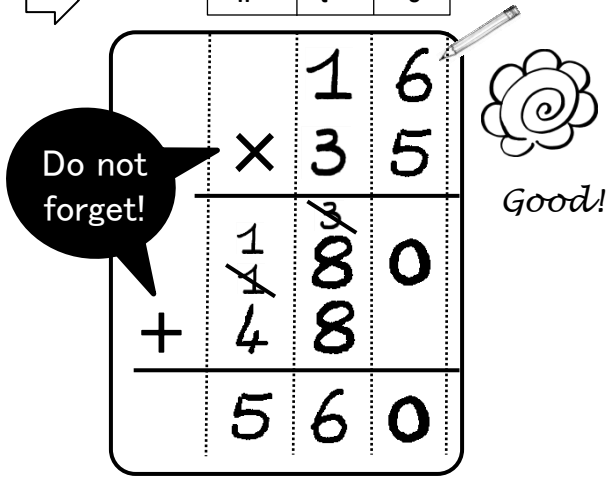
16×35

h	t	o



16×35

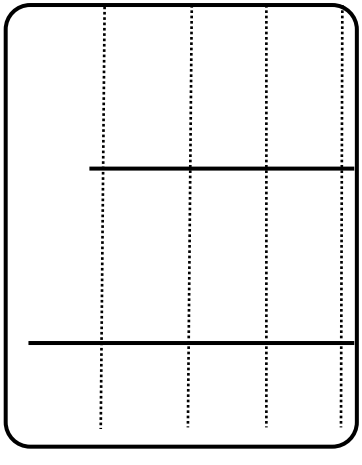
h	t	o



Exercise Multiply. Do not forget to write “×” and “＋”.

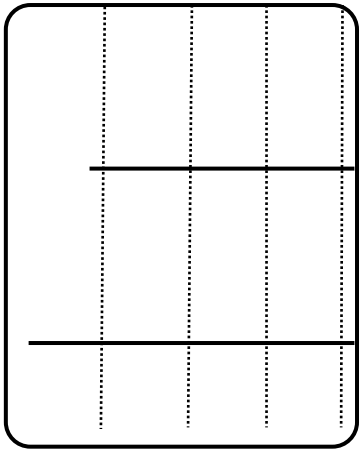
①22×31

h	t	o



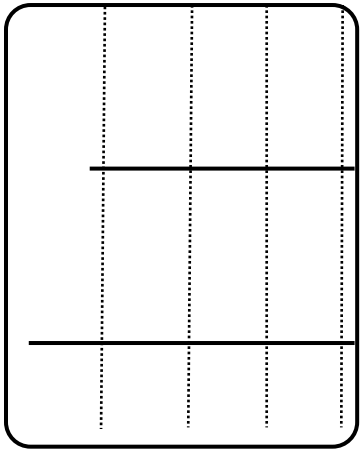
②12×24

h	t	o



③33×21

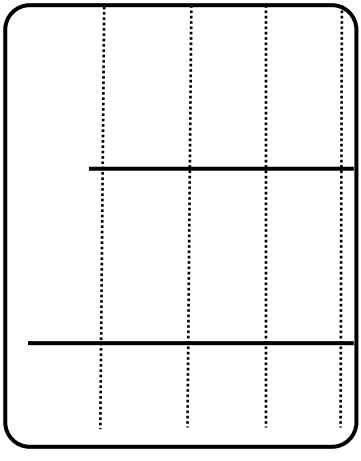
h	t	o



Exercise Multiply. Do not forget to write "×" and "＋".

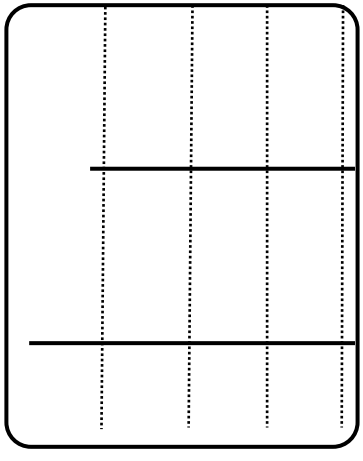
④12×43

h	t	o



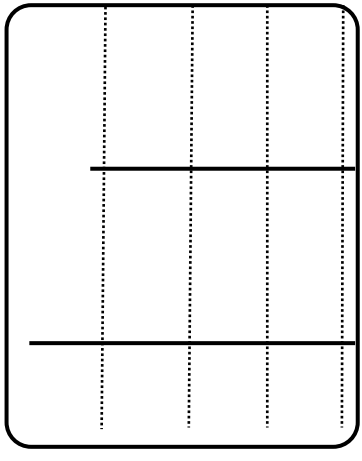
⑤24×21

h	t	o



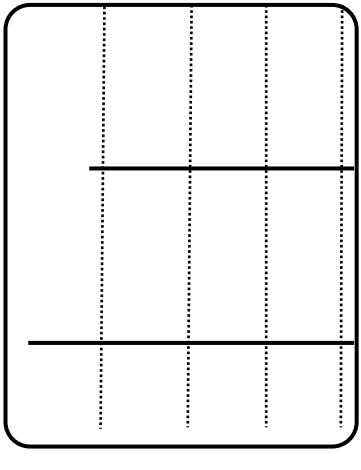
⑥25×23

h	t	o



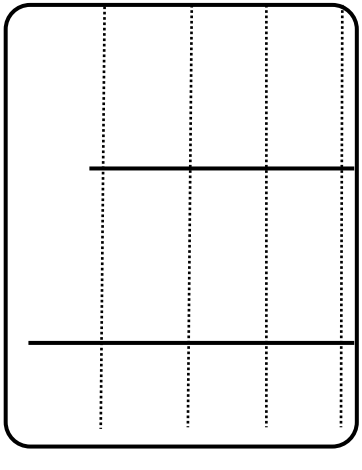
⑦14×25

h	t	o



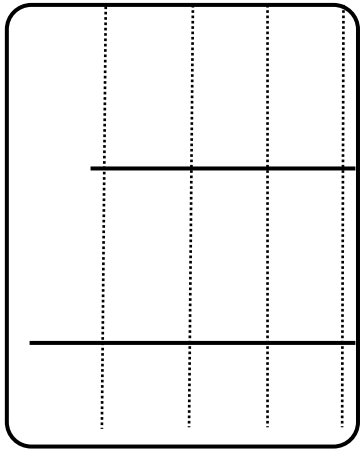
⑧18×34

h	t	o



⑨29×23

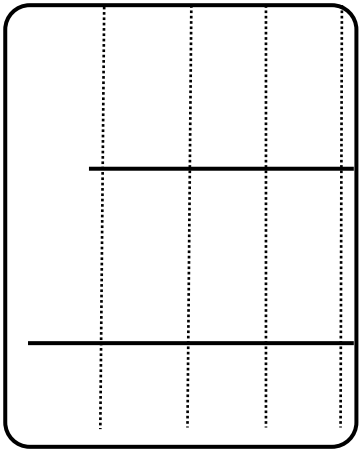
h	t	o



Exercise Multiply. Do not forget to write "×" and "＋".

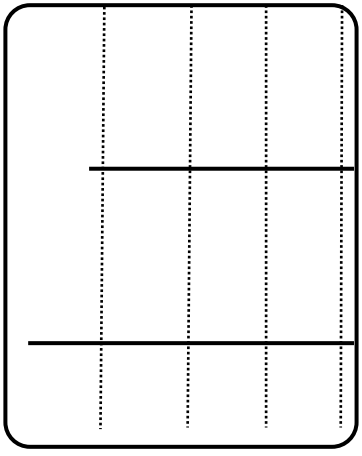
⑩28×13

h	t	o



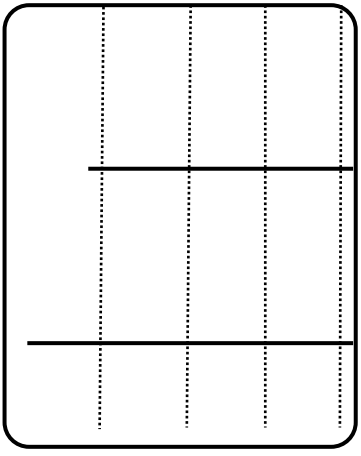
⑪17×42

h	t	o

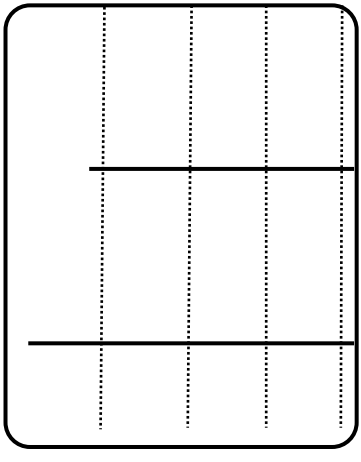


⑫27×23

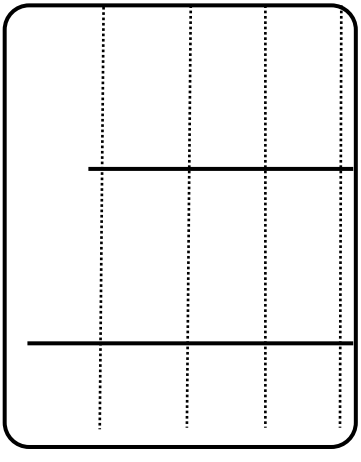
h	t	o



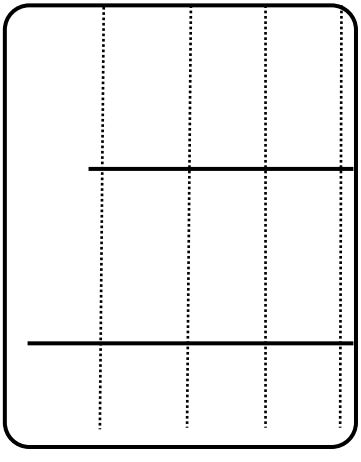
⑬23×34



⑭15×35



⑮47×12



“o” means ●, “t” means ×, “h” means ○, “th” means □.

Let’s calculate this.

32×76

Start multiplying from the numbers at “o”.

th	h	t	o
		3	2
	×	7	6
	1	9	2

18＋1＝19

The multiplication of “o” is 32 × 6, so they are 6 × 2＝12 and 6 × 3 sets of (10).

Multiply the numbers align to “t”.

th	h	t	o
		3	2
	×	7	6
	1	9	2
2	2	4	

We start writing at “t” to align with the place of 7.

21＋1＝22

The multiplication at “t” is 32 × 70, so we have 7 × 2 ＝14 sets of (10) at “t” and 7 × 3＝21 sets of (100).

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s go on the calculation.

32×76

Add the numbers of the top and bottom to get the answer.

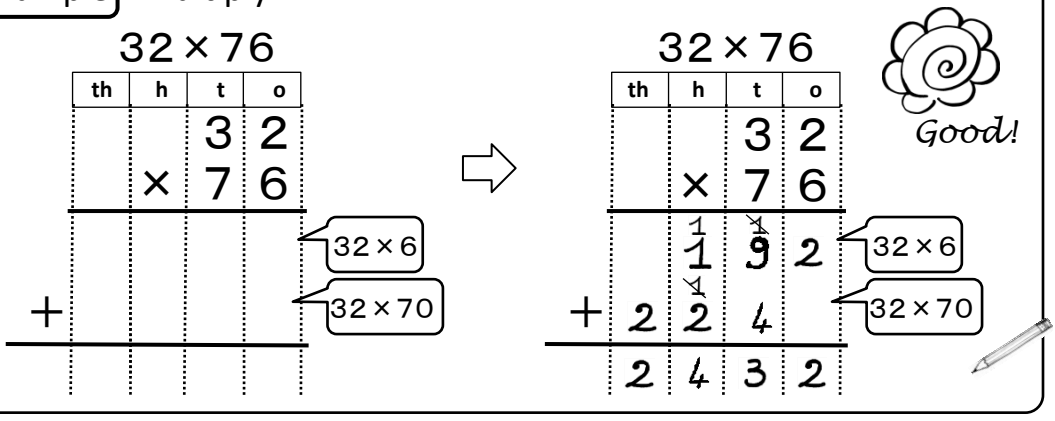
th	h	t	o
		3	2
	×	7	6
	1	~~1~~	
	1	9	2
	~~1~~		
+ 2	2	4	
2	4	3	2

32	
× 76	
12	
180	
140	
+2100	
2432	

If we write separately by places, we can find out the answer is made of 12＋180＋140＋2100.

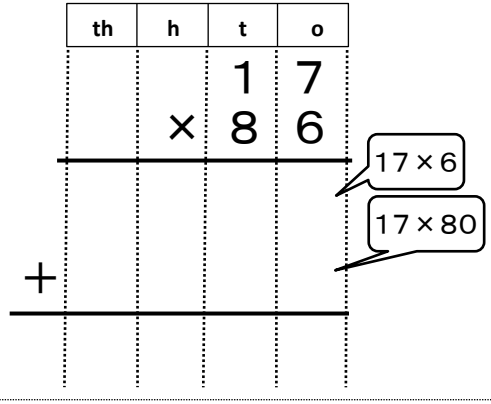
"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

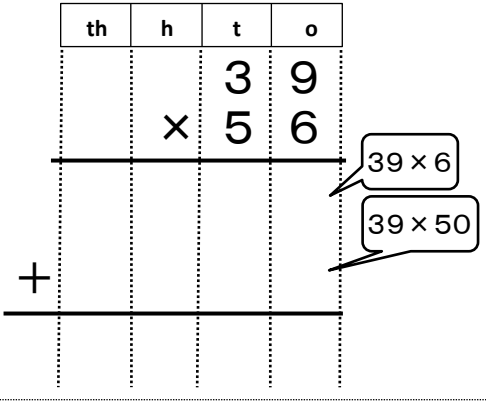


Exercise Multiply.

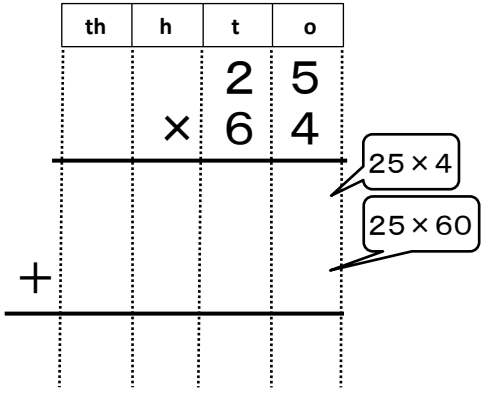
① 17×86



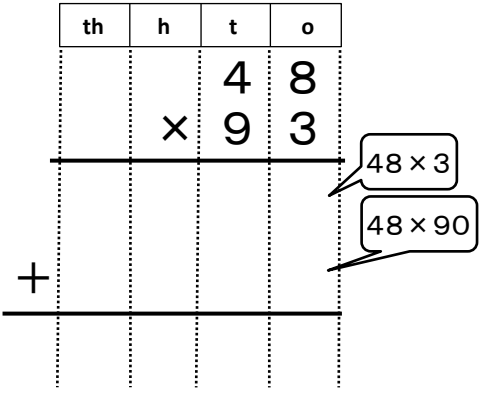
② 39×56



③ 25×64

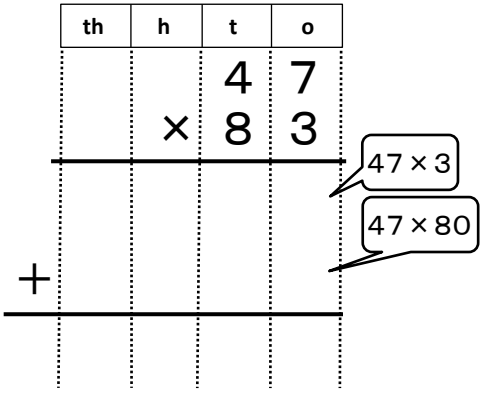


④ 48×93

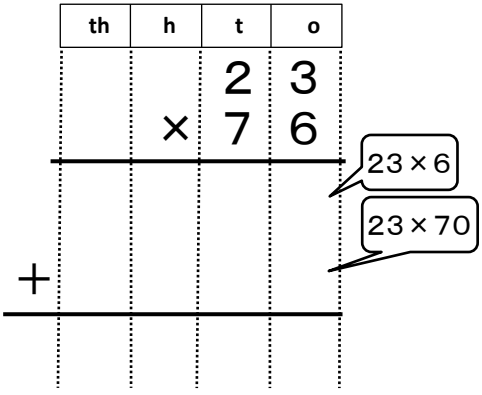


Exercise Multiply.

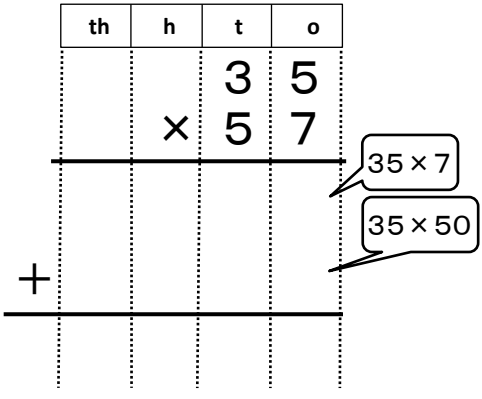
⑤ 47 × 83



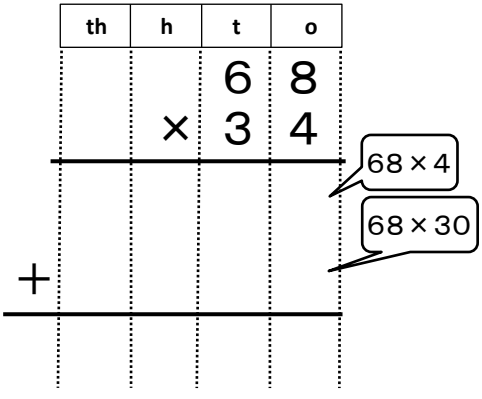
⑥ 23 × 76



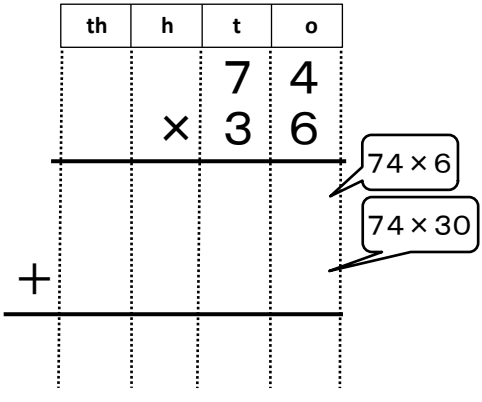
⑦ 35 × 57



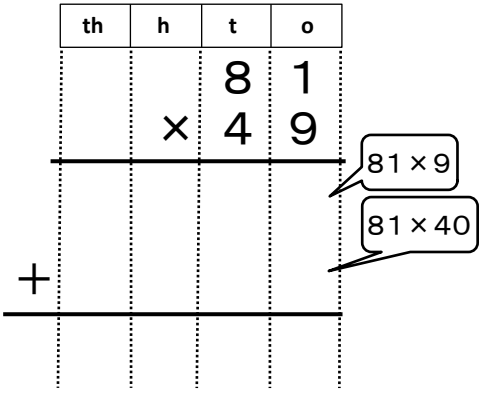
⑧ 68 × 34



⑨ 74 × 36



⑩ 81 × 49



"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

32 × 76

th	h	t	o
		3	2
	×	7	6
+			

32 × 76

th	h	t	o
		3	2
	×	7	6
	1	9	2
+ 2	2	4	
2	4	3	2

Exercise Multiply.

① 24 × 86

th	h	t	o
		2	4
	×	8	6
+			

② 43 × 63

th	h	t	o
		4	3
	×	6	3
+			

③ 54 × 62

th	h	t	o
		5	4
	×	6	2
+			

④ 87 × 46

		8	7
	×	4	6
+			

⑤ 52 × 34

		5	2
	×	3	4
+			

⑥ 68 × 99

		6	8
	×	9	9
+			

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply. Do not forget to write "×" and "+".

32×76

th	h	t	o
		×	
+			

32×76

th	h	t	o
		3	2
	×	7	6
	1	1	9	2
+	2	2	4	
	2	4	3	2

Do not forget!!

Exercise Multiply. Do not forget to write "×" and "+".

Good!

①37×54

th	h	t	o

②46×67

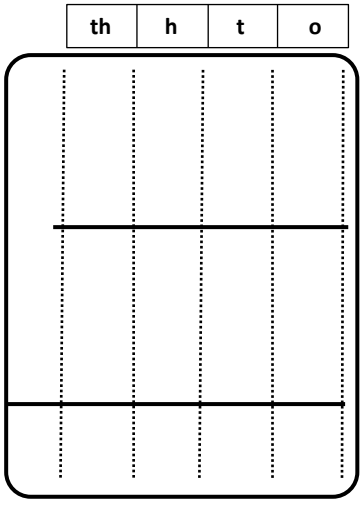
th	h	t	o

③52×28

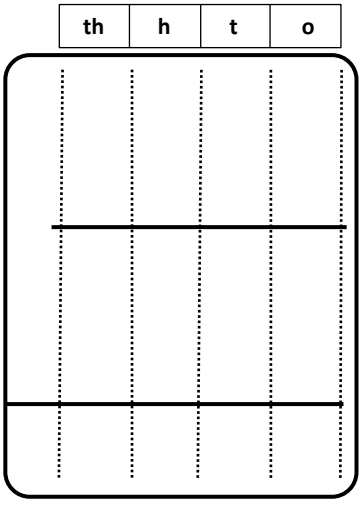
th	h	t	o

Exercise Multiply. Do not forget to write "×" and "＋".

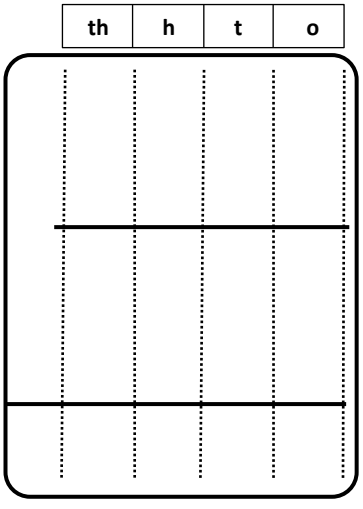
④44×65



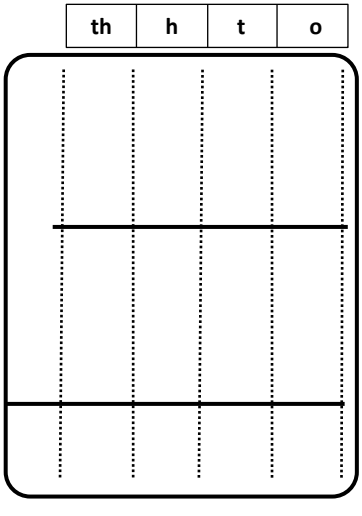
⑤76×34



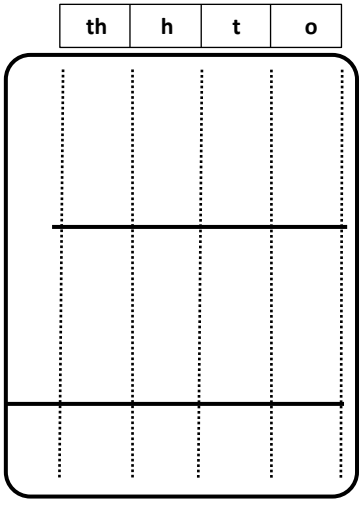
⑥86×49



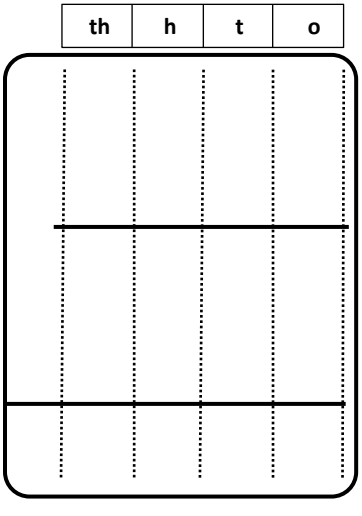
⑦62×25



⑧38×34

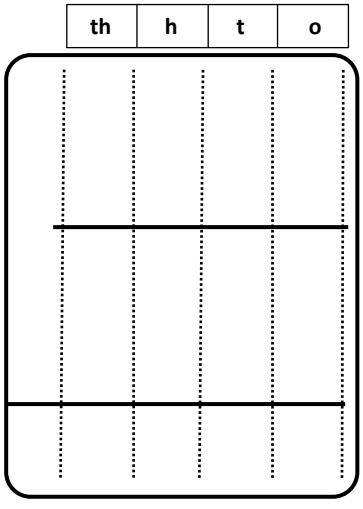


⑨79×93

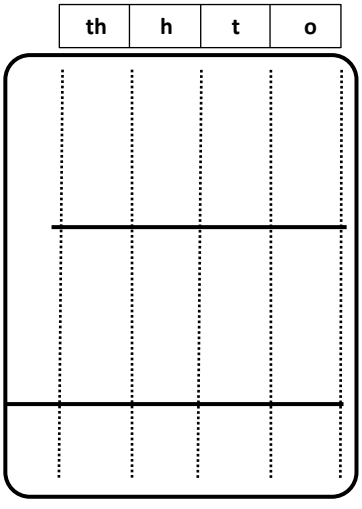


Exercise Multiply. Do not forget to write "×" and "＋".

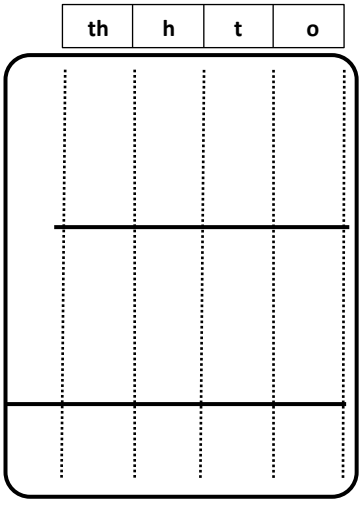
⑩ 28 × 84



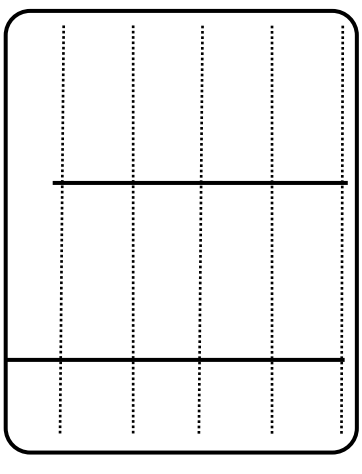
⑪ 67 × 42



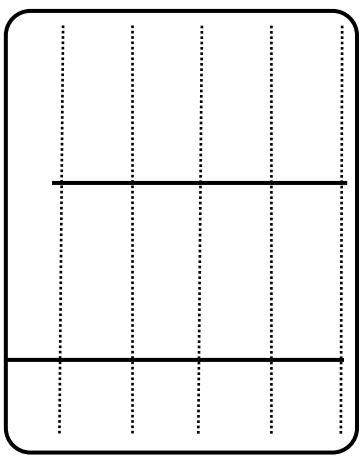
⑫ 77 × 23



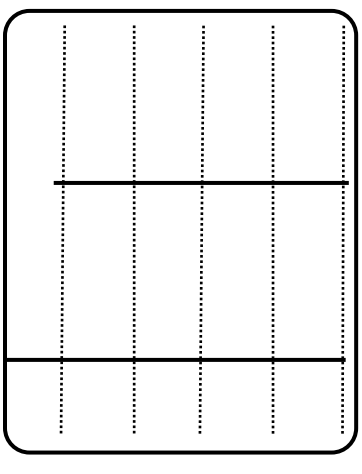
⑬ 53 × 94



⑭ 75 × 35



⑮ 47 × 68



“o” means ●, “t” means ×, “h” means ○, “th” means □.

Let’s calculate this.

218×24

Start multiplying from the numbers align to “o”.

th	h	t	o
	2	1	8
×		2	4
	8	7	2

4+3=7

The multiplication at “o” is 218×4, so they are 4×8=32, 4×1=4 at sets of 10 and 4×2=8 sets of 100.

Multiply the numbers align to “t”.

th	h	t	o
	2	1	8
×		2	4
	8	7	2
4	3	6	

We start writing at “t” to align with the place of 2.

2+1=3

The multiplication at “t” is 218×20, so we have 2×8=16 sets of (10), 2×1=2 sets of (100) and 2×2=4 sets of (1000).

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s go on the calculation.

218×24

Add the numbers of top and bottom to get the answer.

	th	h	t	o
		2	1	8
×			2	4
		1 8	3 7	2
+	1 4	1 3	6	
	5	2	3	2

Even if the numbers become big, we can find out the answer by calculating separately by places.

```
  218
× 24
----
  32  ←4×8
  40  ←4×10
 800  ←4×200
 160  ←20×8
 200  ←20×10
+4000 ←20×200
----
5232
```

If we write separately by places, we can find out the answer is made of 32＋40＋800＋160＋200＋4000.

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

218 × 24

th	h	t	o
	2	1	8
×		2	4
+			

218 × 4

218 × 20

218 × 24

th	h	t	o
	2	1	8
×		2	4
	1	8	7 2
+	1 4	3	6
	5	2	3 2

218 × 4

218 × 20

Exercise Multiply.

① 175 × 36

th	h	t	o
	1	7	5
×	1	3	6
+			

175 × 6

175 × 30

② 239 × 28

th	h	t	o
	2	3	9
×	1	2	8
+			

239 × 8

239 × 20

③ 312 × 13

th	h	t	o
	3	1	2
×		1	3
+			

312 × 3

312 × 10

④ 123 × 39

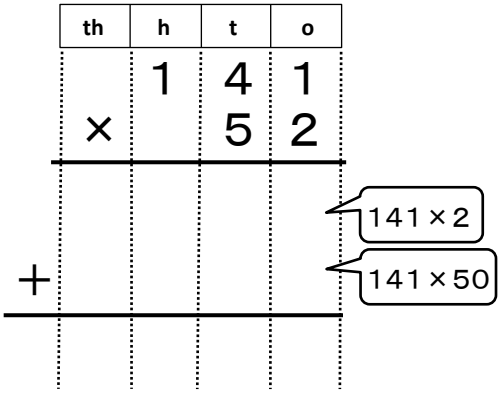
th	h	t	o
	1	2	3
×		3	9
+			

123 × 9

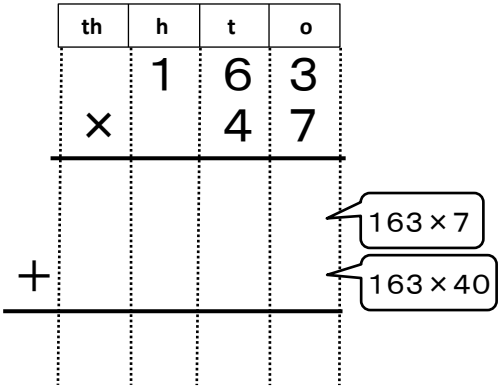
123 × 30

Exercise Multiply.

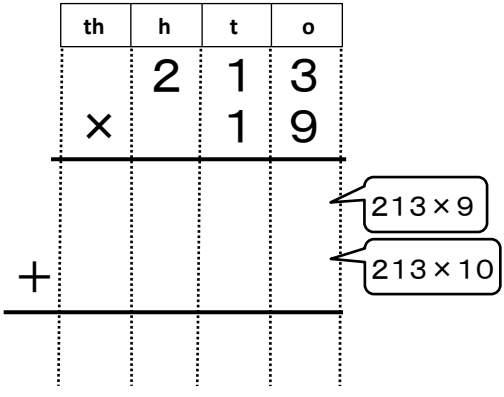
⑤ 141×52



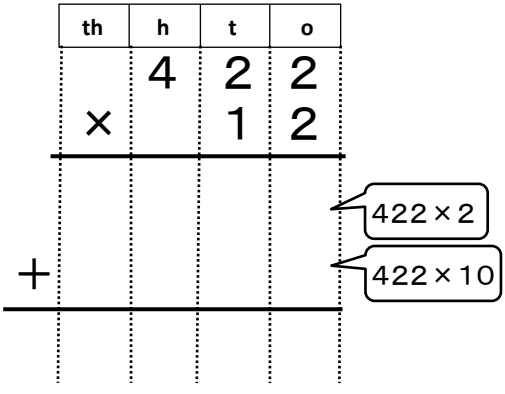
⑥ 163×47



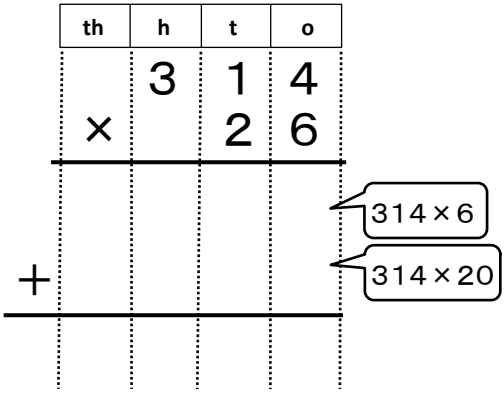
⑦ 213×19



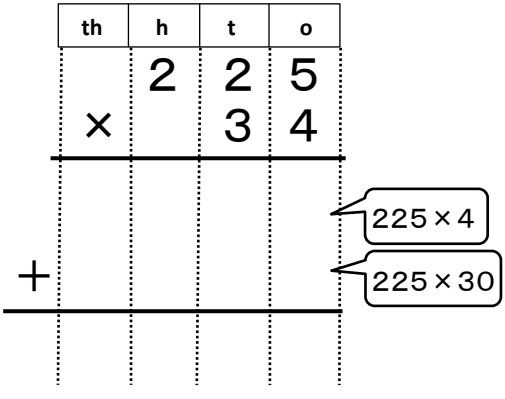
⑧ 422×11



⑨ 314×26



⑩ 225×34



"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

218 × 24

	th	h	t	o
		2	1	8
×			2	4
+				

218 × 24

	th	h	t	o
		2	1	8
×			2	4
		1	8	7 2
+	1 4		3	6
	5	2	3	2

Exercise Multiply.

① 112 × 47

	th	h	t	o
		1	1	2
×			4	7
+				

② 122 × 63

	th	h	t	o
		1	2	2
×			6	3
+				

③ 332 × 21

	th	h	t	o
		3	3	2
×			2	1
+				

④ 122 × 49

	th	h	t	o
		1	2	2
×		1	4	9
+				

⑤ 223 × 36

	th	h	t	o
		2	2	3
×		1	3	6
+				

⑥ 246 × 27

	th	h	t	o
		2	4	6
×			2	7
+				

“o” means ●, “t” means ×, “h” means ○, “th” means □.

Example Multiply. Do not forget to write “×” and “＋”.

218×24

th	h	t	o
×			
＋			

218×24

th	h	t	o
	2	1	8
×		2	4
	1 8	7	2
1 ＋	4	3	6
	5	2	3	2

Do not forget!!

Exercise Multiply. Do not forget to write “×” and “＋”.

①122×38

th	h	t	o

②216×24

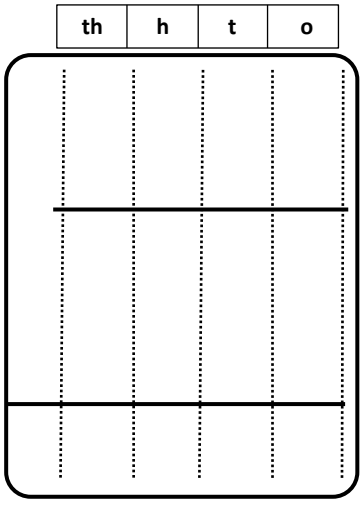
th	h	t	o

③312×31

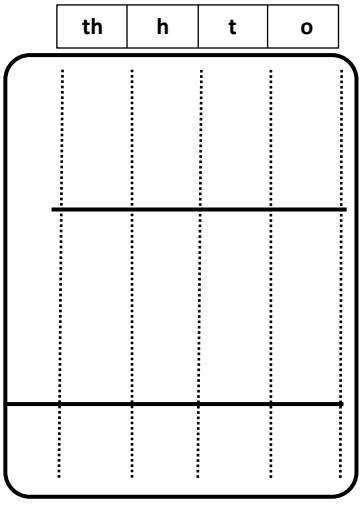
th	h	t	o

Exercise Multiply. Do not forget to write "×" and "+".

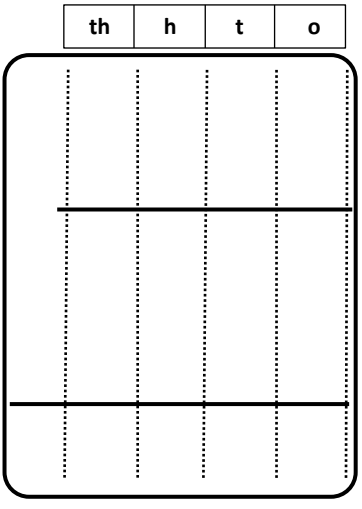
④123×32



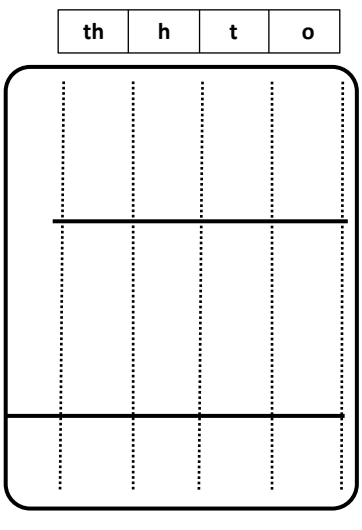
⑤238×34



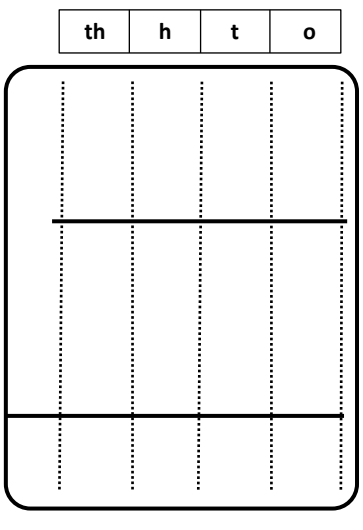
⑥187×31



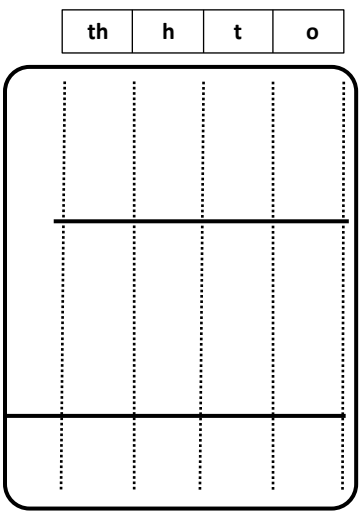
⑦323×12



⑧185×54

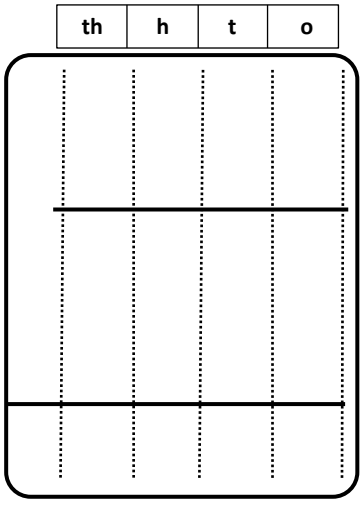


⑨492×13

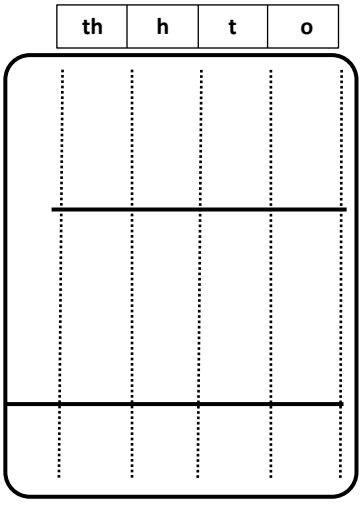


Exercise Multiply. Do not forget to write "×" and "＋".

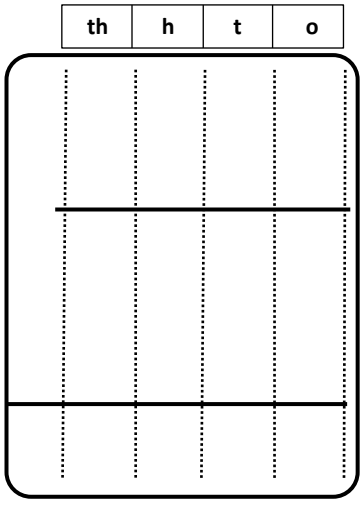
⑩129×67



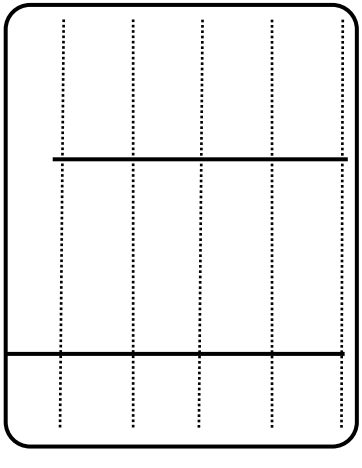
⑪136×29



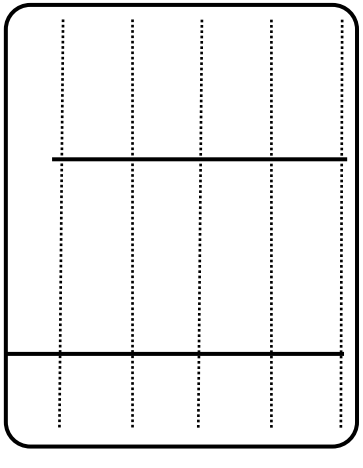
⑫326×23



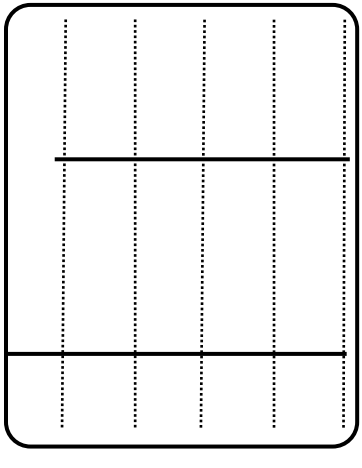
⑬273×28



⑭312×22



⑮517×11



“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s calculate this.

324×63

Start multiplying from the numbers align to “o” .

th	h	t	o
	3	2	4
×		6	3
	9	7	2

6+1=7

The multiplication at “o” is 324 × 3, so they are 3 × 4 = 12 , 3 × 2 = 6 at sets of (10) and 3 × 3 = 9 sets of (100).

Multiply the numbers align to “t”.

	th	h	t	o
		3	2	4
	×		6	3
		9	7	2
1	9	4	4	

We start writing at “t” to align with the place of 6.

18+1=19

12+2=14

The multiplication at “t” is 324 × 60, so we have 6 × 4 = 24 sets of (10), 6 × 2 = 12 sets of (100) and 6 × 3 = 18 sets of (1000).

“o” means ●, “t” means ×, “h” means ○, “th” means □.

Let’s calculate this.

324×63

Start multiplying from the numbers align to “o” .

	th	h	t	o
		3	2	4
	×		6	3
		1 9	1 7	2
+	1 1	1 9	2 4	4
	2	0	4	1 2

```
  324
× 63
 ----
   12  ←3×4
   60  ←3×20
  900  ←3×300
  240  ←60×4
 1200  ←60×20
+18000  ←60×300
 ----
 20412
```

If we write separately by places, we can find out the answer is made of 12＋60＋900＋240＋1200＋18000.

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

324 × 63

	th	h	t	o
		3	2	4
	×		6	3
+				

324 × 3

324 × 60

	th	h	t	o
		3	2	4
	×		6	3
		1	1	
		9	7	2
+	1	1	4	
	1	9	4	4
	2	0	4	1	2

Exercise Multiply.

① 375 × 46

	th	h	t	o
		3	7	5
	×		4	6
+				

375 × 6

375 × 40

② 239 × 58

	th	h	t	o
		2	3	9
	×		5	8
+				

239 × 8

239 × 50

③ 412 × 63

	th	h	t	o
		4	1	2
	×		6	3
+				

412 × 3

412 × 60

④ 523 × 39

	th	h	t	o
		5	2	3
	×		3	9
+				

523 × 9

523 × 30

Exercise Multiply.

⑤ 241×62

	th	h	t	o
		2	4	1
	×		6	2
+				

241×2

241×60

⑥ 563×47

	th	h	t	o
		5	6	3
	×		4	7
+				

563×7

563×40

⑦ 153×79

	th	h	t	o
		1	5	3
	×		7	9
+				

153×9

153×70

⑧ 322×66

	th	h	t	o
		3	2	2
	×		6	6
+				

322×6

322×60

⑨ 584×35

	th	h	t	o
		5	8	4
	×		3	5
+				

584×5

584×30

⑩ 267×89

	th	h	t	o
		2	6	7
	×		8	9
+				

267×9

267×80

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

324 × 63

	th	h	t	o
		3	2	4
	×		6	3
+				

324 × 63

	th	h	t	o
		3	2	4
	×		6	3
		1 9	1 7	2
+	1	1 9	4	4
	2	0	4	1	2

Exercise Multiply.

① 176 × 64

	th	h	t	o
		1	7	6
	×		6	4
+				

② 286 × 97

	th	h	t	o
		2	8	6
	×		9	7
+				

③ 367 × 32

	th	h	t	o
		3	6	7
	×		3	2
+				

④ 482 × 43

	th	h	t	o
		4	8	2
	×	1	4	3
+				

Exercise Multiply.

⑤ 274×58

	th	h	t	o
		2	7	4
	×		5	8
+				

⑥ 187×94

	th	h	t	o
		1	8	7
	×		9	4
+				

⑦ 647×78

	th	h	t	o
		6	4	7
	×	1	7	8
+				

⑧ 726×38

	th	h	t	o
		7	2	6
	×		3	8
+				

⑨ 824×36

		8	2	4
	×		3	6
+				

⑩ 685×83

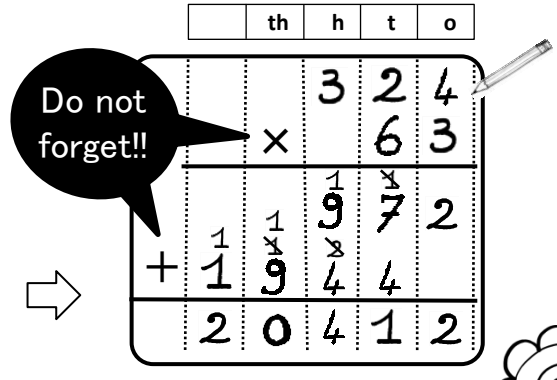
		6	8	5
	×		8	3
+				

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply. Do not forget to write "×" and "+".

324×63

	th	h	t	o



Good!

Exercise Multiply. Do not forget to write "×" and "+".

① 132×96

	th	h	t	o

② 153×72

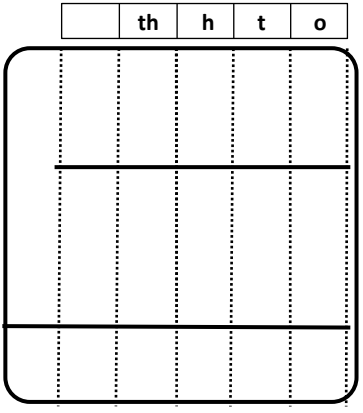
	th	h	t	o

③ 265×45

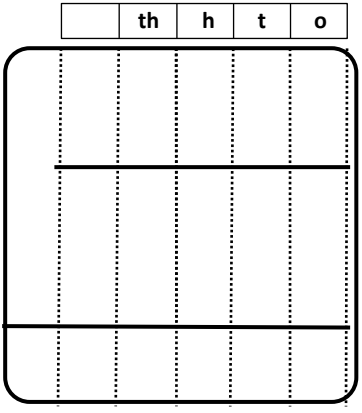
	th	h	t	o

Exercise Multiply. Do not forget to write "×" and "＋".

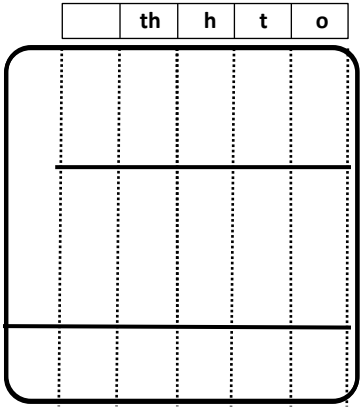
④ 389×47



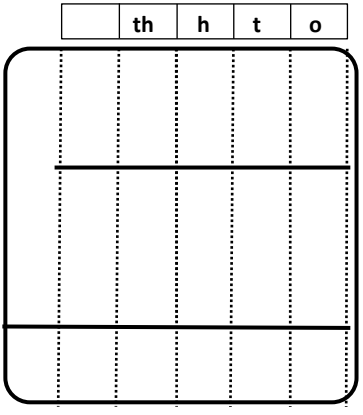
⑤ 428×75



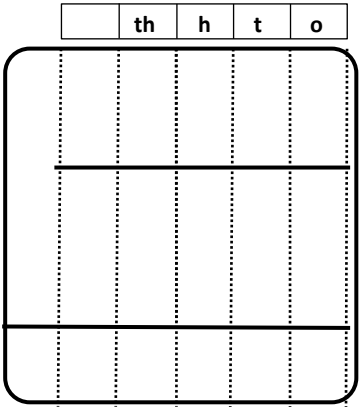
⑥ 459×29



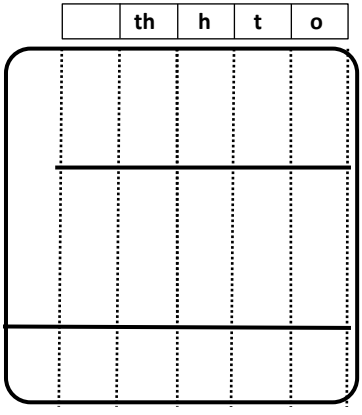
⑦ 576×38



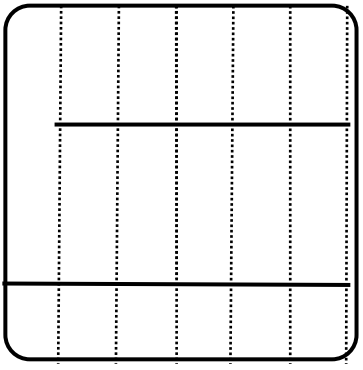
⑧ 492×54



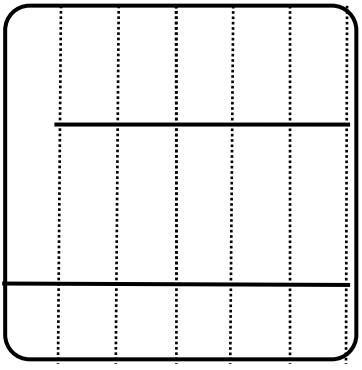
⑨ 517×43



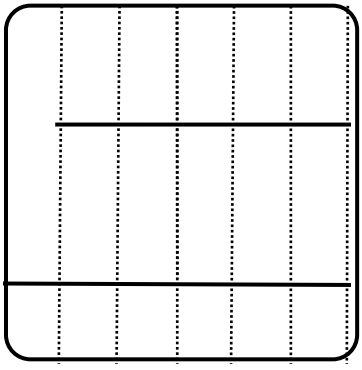
⑩ 459×65



⑪ 528×79



⑫ 748×15



“o” means ●, “t” means ×, “h” means ○, “th” means □.

Let’s calculate this.

203×54

Start multiplying from the numbers align to “o”.

th	h	t	o
	2	0	3
×		5	4
	8	1	2

0+1=1

The multiplication at “o” is 203 × 4, so they are 4 × 3 = 12 at 1, 4 × 0 = 0 at sets of (10) and 4 × 2 = 8 sets of (100).

Multiply the numbers align to “t”.

	th	h	t	o
		2	0	3
	×		5	4
1	0	1	5	

We start writing at “t” to align with the place of 5.

0+1=1

The multiplication at “t” is 203 × 50, so we have 5 × 3 sets of (10), 5 × 0 sets of (100) and 5 × 2 sets of (1000).

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s go on the calculation.

203×54

Add the numbers of top and bottom to get the answer.

	th	h	t	o
		2	0	3
	×		5	4
		8	1	2
+	1	0	1	5
	1	0	9	6	2

```
  203
× 54
 ----
   12  ←4×3
    0  ←4×0
  800  ←4×200
  150  ←50×3
    0  ←50×0
+10000  ←50×200
 ----
10962
```

If we write separately by places, we can find out the answer is made of 12＋0＋800＋150＋0＋10000.

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

203 × 54

	th	h	t	o
		2	0	3
	×		5	4
+				

203 × 4

203 × 50

203 × 54

	th	h	t	o
		2	0	3
	×		5	4
		8	1	2
+	1	0	1	5
	1	0	9	6

203 × 4

203 × 50

Exercise Multiply.

① 503 × 64

	th	h	t	o
		5	0	3
	×		6	4
+				

503 × 4

503 × 60

② 309 × 85

	th	h	t	o
		3	0	9
	×		8	5
+				

309 × 5

309 × 80

③ 402 × 59

	th	h	t	o
		4	0	2
	×		5	9
+				

402 × 9

402 × 50

④ 207 × 96

	th	h	t	o
		2	0	7
	×		9	6
+				

207 × 6

207 × 90

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

203 × 54

	th	h	t	o
		2	0	3
	×		5	4
+				

203 × 54

	th	h	t	o
		2	0	3
	×		5	4
		8	1	2
+	1	0	1	5
	1	0	9	6	2

Good!

Exercise Multiply.

① 307 × 52

	th	h	t	o
		3	0	7
	×		5	2
+				

② 407 × 64

	th	h	t	o
		4	0	7
	×		6	4
+				

③ 708 × 15

		7	0	8
	×		1	5
+				

④ 506 × 38

		5	0	6
	×		3	8
+				

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply. Do not forget to write "×" and "+".

203×54

	th	h	t	o

×

+

203×54

	th	h	t	o
		2	0	3
×			5	4
		8	1	2
+	1	0	1	5
	1	0	9	6	2

Do not forget!!

Good!

Exercise Multiply. Do not forget to write "×" and "+".

① 208×95

	th	h	t	o

② 503×76

	th	h	t	o

③ 602×54

	th	h	t	o

① 803×17

② 606×89

③ 508×43

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s calculate this.

284×376

Start multiplying from the numbers align to “o”.

	th	h	t	o
		2	8	4
×		3	7	6
	1	7	0	4

12+5=17

48+2=50

The multiplication at “o” is 284×6, so we have $6 \times 4 = 24$ sets of ①, $6 \times 8 = 48$ sets of ⑩ and $6 \times 2 = 12$ sets of ⑩⓪.

Multiply the numbers align to “t”.

	th	h	t	o
		2	8	4
	×	3	7	6
	1	7	0	4
1	9	8	8	

14+5=19

56+2=58

We start writing at “t” to align with the place of 2.

The multiplication at “t” is 284×70, so we have $7 \times 4 = 28$ sets of ⑩, $7 \times 8 = 56$ sets of ⑩⓪ and $7 \times 2 = 14$ sets of ⑩⓪⓪.

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s calculate this.

284×376

Start multiplying from the numbers align to “o” .

	th	h	t	o
		2	8	4
	×	3	7	6
	1	7	0	4
	1	9	8	8
1	5	2		
8	5			

We start writing at “h” to align with the place of 3.

6+2=8

24+1=25

The multiplication at “h” is 284×300, so we have $3 \times 4 = 12$ sets of (100), $3 \times 8 = 24$ sets of (1000) and $3 \times 2 = 6$ sets of (10000).

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Let’s go on the calculation.

284×376

Start multiplying from the numbers align to “o” .

		th	h	t	o
			2	8	4
		×	3	7	6
		1	5	2	
		1	7	0	4
	1	5	2		
	1	9	8	8	
	2	1			
+	8	5	2		
	1	0	6	7	8	4

```
  284
× 376
 ----
   24  ←6×4
  480  ←6×80
 1200  ←6×200
  280  ←70×4
 5600  ←70×80
14000  ←70×200
 1200  ←300×4
24000  ←300×80
+60000 ←300×200
 ----
106784
```

If we write separately by places, we can find out the answer is made of
24＋480＋1200＋280＋5600＋14000＋1200＋24000＋60000.

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

284 × 376

		th	h	t	o
			2	8	4
		×	3	7	6
+					

284 × 6
284 × 70
284 × 300

284 × 376

		th	h	t	o
			2	8	4
		×	3	7	6
		1	7	0	4
	1	1	9	8	8
+		8	5	2	
	1	0	6	7	8

284 × 6
284 × 70
284 × 300

Good!

Exercise Multiply.

① 275 × 146

		th	h	t	o
			2	7	5
		×	1	4	6
+					

275 × 6
275 × 40
275 × 100

② 439 × 258

		th	h	t	o
			4	3	9
		×	2	5	8
+					

439 × 8
439 × 50
439 × 200

Exercise Multiply.

③ 512×163

		th	h	t	o
			5	1	2
		×	1	6	3
+					

512×3
512×60
512×100

④ 423×239

		th	h	t	o
			4	2	3
		×	2	3	9
+					

423×9
423×30
423×200

⑤ 218×652

		th	h	t	o
			2	1	8
		×	6	5	2
+					

218×2
218×50
218×600

⑥ 673×384

		th	h	t	o
			6	7	3
		×	3	8	4
+					

673×4
673×80
673×300

Exercise Multiply.

⑦ 153×279

		th	h	t	o
			1	5	3
		×	2	7	9
+					

153×9
153×70
153×200

⑧ 246×613

		th	h	t	o
			2	4	6
		×	6	1	3
+					

246×3
246×10
246×600

⑨ 493×257

		th	h	t	o
			4	9	3
		×	2	5	7
+					

493×7
493×50
493×200

⑩ 547×264

		th	h	t	o
			5	4	7
		×	2	6	4
+					

547×4
547×60
547×200

“o” means ●, “t” means ×, ‘’h” means ○, “th” means □.

Example Multiply.

284×376

		th	h	t	o
			2	8	4
		×	3	7	6
+					

284×376

		th	h	t	o
			2	8	4
		×	3	7	6
		1	7	0	4
	1	1	9	8	8
+		8	5	2	
	1	0	6	7	8	4

Exercise Multiply.

① 276×643

		th	h	t	o
			2	7	6
		×	6	4	3
+					

② 186×397

		th	h	t	o
			1	8	6
		×	3	9	7
+					

Exercise Multiply.

③ 617×432

		th	h	t	o
			6	1	7
		×	4	3	2
+					

④ 264×543

		th	h	t	o
			2	6	4
		×	5	4	3
+					

⑤ 472×658

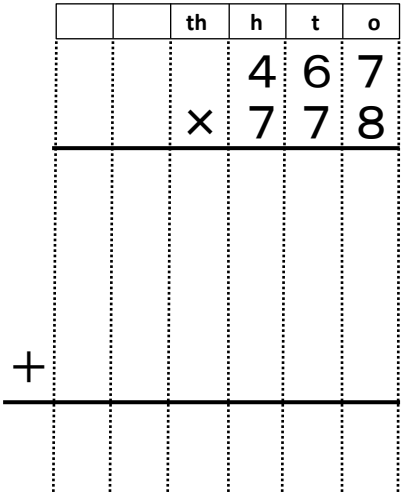
		th	h	t	o
			4	7	2
		×	6	5	8
+					

⑥ 163×924

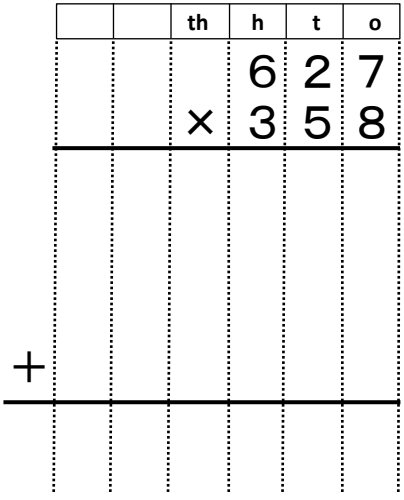
		th	h	t	o
			1	6	3
		×	9	2	4
+					

Exercise Multiply.

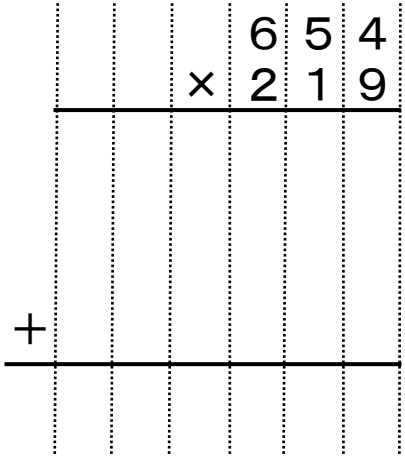
⑦ 467×778



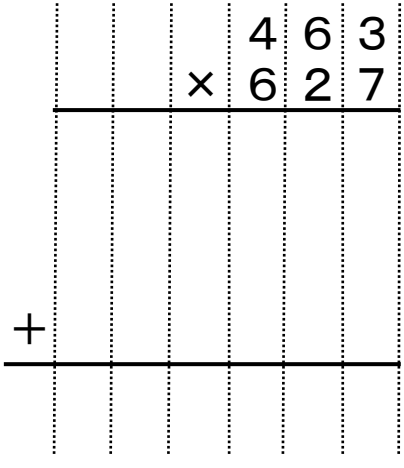
⑧ 627×358



⑨ 654×219



⑩ 463×627



“o” means ●, “t” means ×, “h” means ○, “th” means □.

Example Multiply. Do not forget to write “×” and “＋”.

284×376

		th	h	t	o

284×376

		th	h	t	o
			2	8	4
		×	3	7	6
		1	7	0	4
	1	9	8	8	
+	8	5	2		
	1	0	6	7	8	4

Do not forget!!

Good!

Exercise Multiply. Do not forget to write “×” and “＋”.

① 128×296

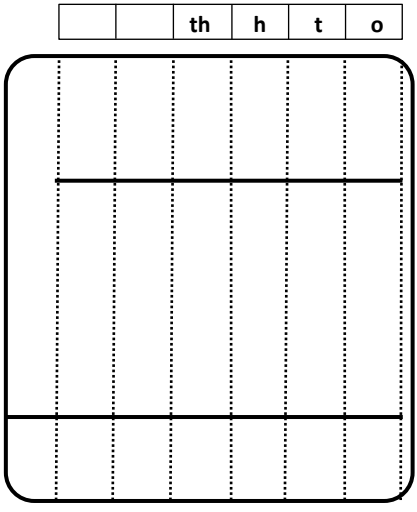
		th	h	t	o

② 135×372

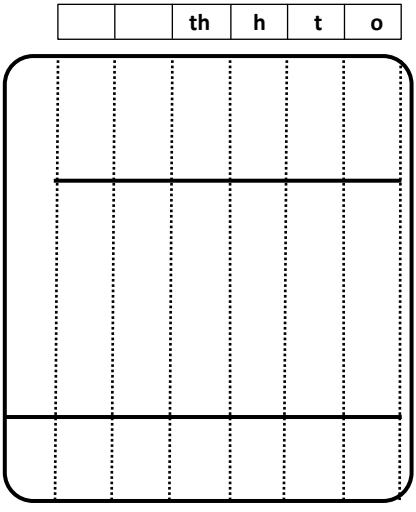
		th	h	t	o

Exercise Multiply. Do not forget to write "×" and "＋".

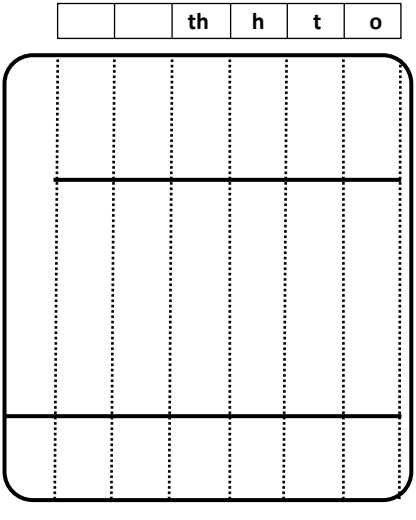
③ 258×345



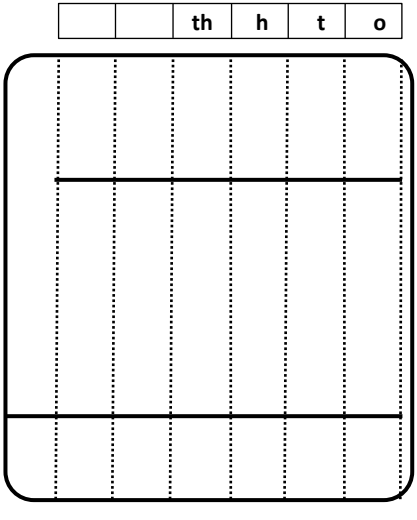
④ 289×647



⑤ 358×275

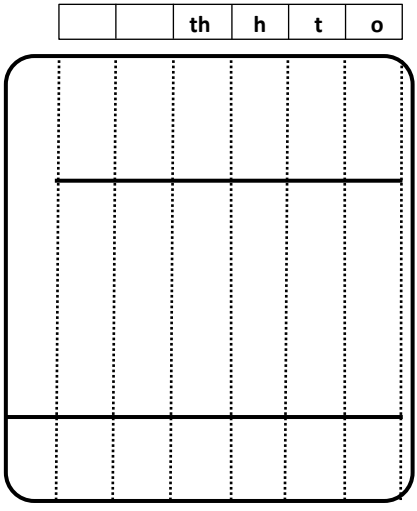


⑥ 549×129

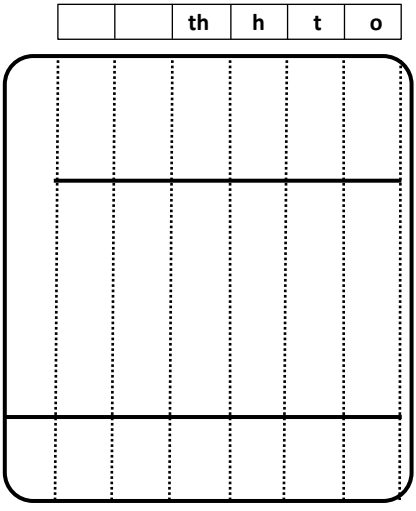


Exercise Multiply. Do not forget to write "×" and "+".

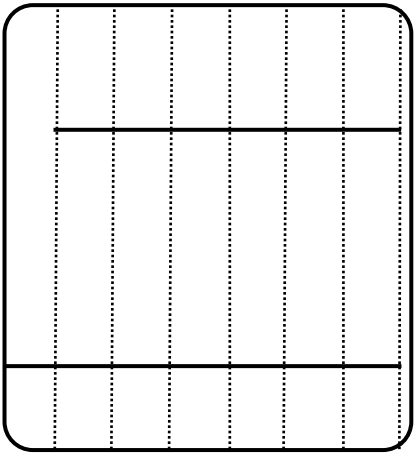
⑦ 374×638



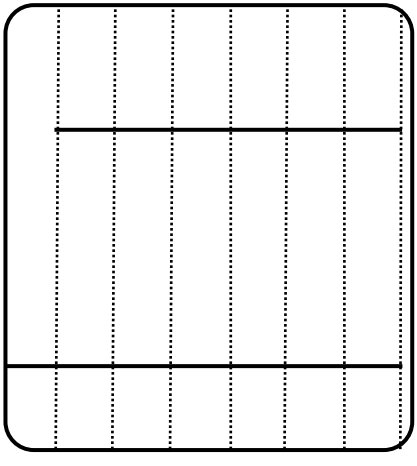
⑧ 657×714



⑨ 473×854



⑩ 942×154



"o" means ●, "t" means ×, "h" means ○, "th" means □.

Let's calculate this.

$$162 \times 308$$

Start multiplying from the numbers align to "o".

th	h	t	o
	1	6	2
×	3	0	8
1	2	9	6

8+4=12

48+1=49

The multiplication at "o" is 162 × 8, so they are 8 × 2 = 16 at ①, 8 × 6 = 48 at sets of ⑩ and 8 × 1 = 8 sets of ⑩⓪.

Multiply the numbers align to "t".

th	h	t	o
	1	6	2
×	3	0	8
1	2	9	6
0	0	0	

We do not need to write 0 because adding 0 do not change the answer.

The multiplication at "t" is 162 × 0. 0 multiplied by any number is 0.

“o” means ●, “t” means ×, “h” means ○, “th” means □.

Let’s go on the calculation.

162×308

Multiply the numbers align to “h”.

	th	h	t	o
		1	6	2
×		3	0	8
	1	2	9	6
4	8	6		

We start writing at “h” to align with the place of 3.

3+1=4

The multiplication at “h” is 162×300, so we have 3×2=6 sets of (100), 3×6=18 sets of (1000) and 3×1=3 sets of (10000).

“o” means ●, “t” means ×, “h” means ○, “th” means □.

Let’s go on the calculation.

162×308

Add the numbers of top and bottom to get the answer.

	th	h	t	o
		1	6	2
	×	3	0	8
	1	2	9	6
+	4	8	6	
	4	9	8	9	6

```
  162
× 308
-----
   16  ←8×2
  480  ←8×60
  800  ←8×100
    0  ←0×2
    0  ←0×60
    0  ←0×100
  600  ←300×2
18000  ←300×60
+30000 ←300×100
-----
49896
```

If we write separately by places, we can find out the answer is made of
16＋480＋800＋0＋0＋0＋600＋18000＋30000.

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

162 × 308

		th	h	t	o
			1	6	2
		×	3	0	8
+					

162 × 8

162 × 300

284 × 376

		th	h	t	o
			1	6	2
		×	3	0	8
			1	2	9	6
+		4	8	6		
		4	9	8	9	6

Good!

162 × 8

162 × 300

Exercise Multiply.

① 189 × 302

		th	h	t	o
			1	8	9
		×	3	0	2
+					

189 × 2

189 × 300

② 275 × 409

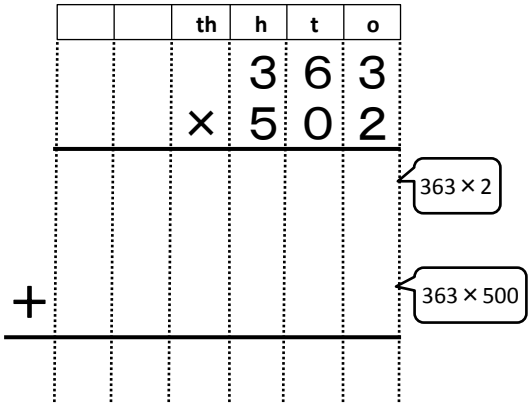
		th	h	t	o
			2	7	5
		×	4	0	9
+					

275 × 9

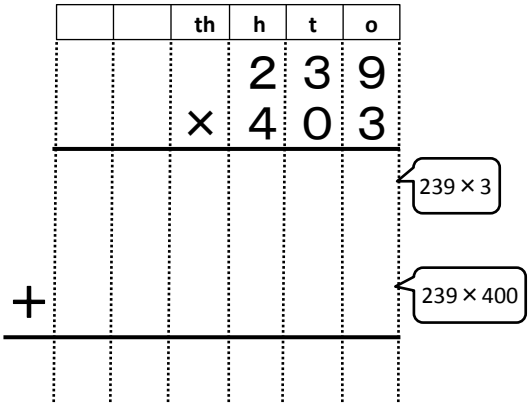
275 × 400

Exercise Multiply.

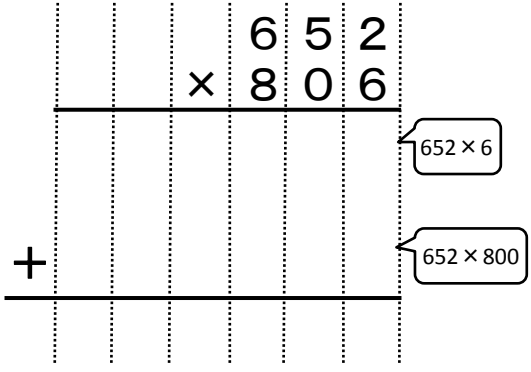
③ 363 × 502



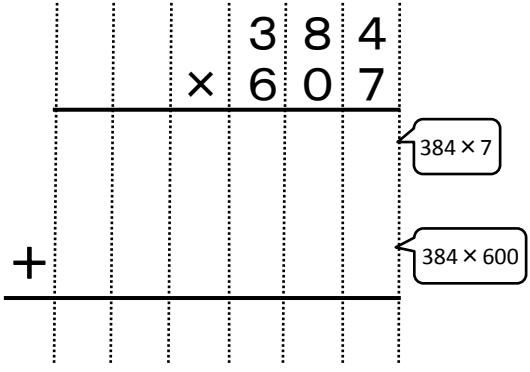
④ 239 × 403



⑤ 652 × 806



⑥ 384 × 607



"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply.

162 × 308

		th	h	t	o
			1	6	2
		×	3	0	8
+					

284 × 376

		th	h	t	o
			1	6	2
		×	3	0	8
		1	2	9	6
+	4	8	6		
	4	9	8	9	6

Good!

Exercise Multiply.

① 623 × 206

		th	h	t	o
			6	2	3
		×	2	0	6
+					

② 379 × 108

		th	h	t	o
			3	7	9
		×	1	0	8
+					

Exercise Multiply.

③ 423 × 607

		th	h	t	o
			4	2	3
		×	6	0	7
+					

④ 534 × 204

		th	h	t	o
			5	3	4
		×	2	0	4
+					

⑤ 685 × 402

			6	8	5
		×	4	0	2
+					

⑥ 942 × 306

			9	4	2
		×	3	0	6
+					

"o" means ●, "t" means ×, "h" means ○, "th" means □.

Example Multiply. Do not forget to write "×" and "+".

162×308

		th	h	t	o
+					

162×308

		th	h	t	o
			1	6	2
		×	3	0	8
		1	2	9	6
+	4	8	6		
	4	9	8	9	6

Do not forget!!

Exercise Multiply. Do not forget to write "×" and "+".

① 296×207

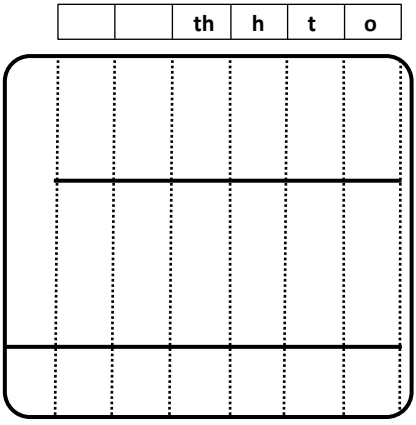
		th	h	t	o

② 327×502

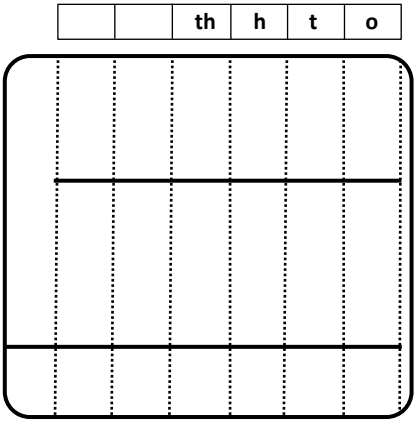
		th	h	t	o

Exercise Multiply. Do not forget to write "×" and "＋".

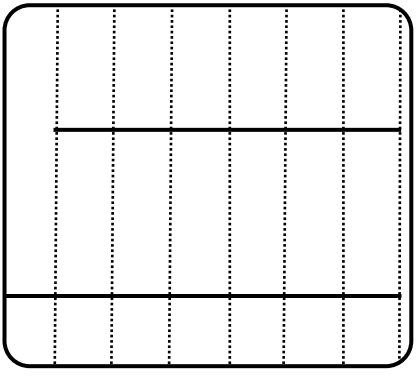
③ 354 × 209



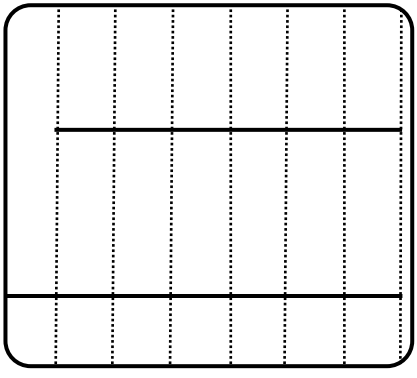
④ 673 × 405



⑤ 257 × 608



⑥ 219 × 504



Let's find an effective way of calculating numbers with some 0.

2400×20

Multiply non-zero numbers.

$$\begin{array}{r} 2\ 4\ 0\ 0 \\ \times\quad 2\ 0 \\ \hline 4\ 8 \end{array}$$

We align the non-zero numbers vertically and calculate.

Write the same numbers of 0 as the numbers of question have.

$$\begin{array}{r} 2\ 4\ 0\ 0 \\ \times\quad 2\ 0 \\ \hline 4\ 8\ 0\ 0\ 0 \end{array}$$

2400×20 has two 0 and one 0, so we should write three 0 at the answer.

Take care of making these two types of mistakes.

$30\,070 \times 30$

$$\begin{array}{r} 3\,0\,0\,7\,0 \\ \times\quad 3\,0 \\ \hline 9021\,0000 \end{array}$$

The 0 between the numbers are different from the 0 at the bottom. The correct answer is 902 100.

$120\,000 \times 300$

$$\begin{array}{r} 12\,0000 \\ \times\quad 3\,00 \\ \hline 36\,00000 \end{array}$$

Do not make mistakes in writing how many numbers after the 36. The correct answer is 36 000 000.

Example Multiply.

2400 × 20

		2	4	0	0
	×		2	0	

2400 × 20

		2	4	0	0
	×		2	0	
		4	8	0	0	0

Good!

Exercise Multiply.

① 2700 × 30

		2	7	0	0
	×		3	0	

② 5400 × 80

		5	4	0	0
	×		8	0	

③ 3800 × 520

		3	8	0	0
	×	5	2	0	

④ 6100 × 490

		6	1	0	0
	×	4	9	0	

⑤ 62000 × 40

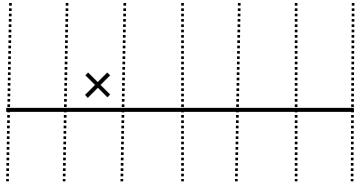
	6	2	0	0	0
×		4	0		

⑥ 93000 × 600

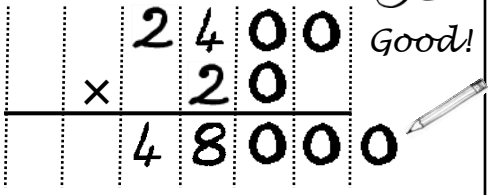
	9	3	0	0	0
×		6	0	0	

Example Multiply.

2400 × 20

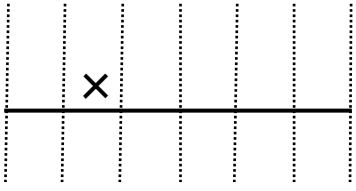


2400 × 20

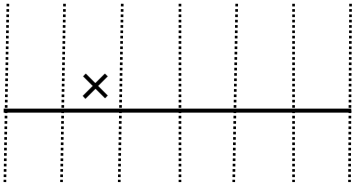


Exercise Multiply.

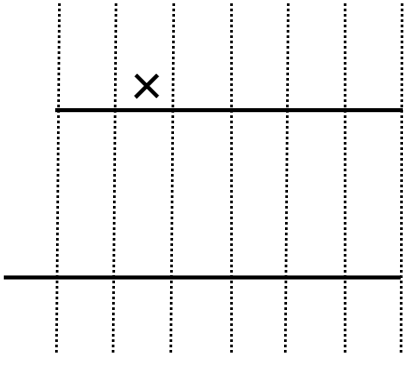
① 3200 × 60



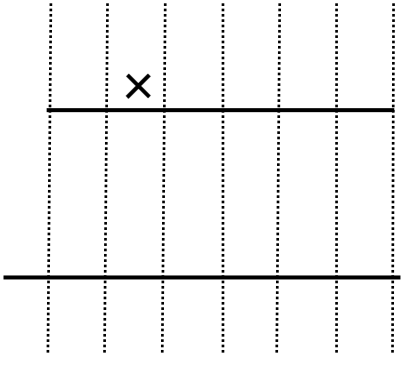
② 4900 × 70



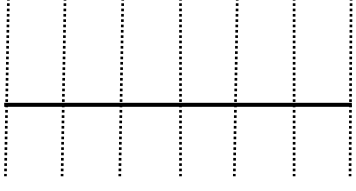
③ 2700 × 520



④ 8300 × 260



⑤ 53000 × 80



⑥ 39000 × 500