

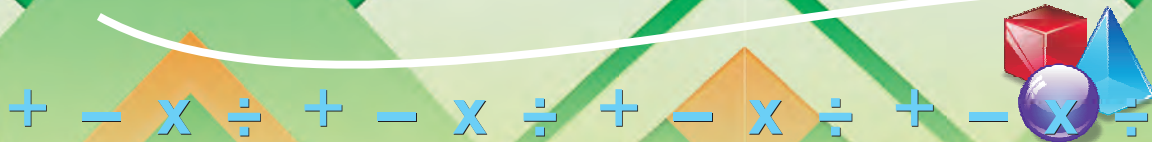


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**LESSON**  
PART 4




# 4



## MULTIPLICATION

### READY ... STEADY

#### A. Write the multiplication facts.

1.   $3 + 3 + 3 + 3 = 12$  \_\_\_\_\_

2.  $5 + 5 + 5 + 5 + 5 + 5 = 30$  \_\_\_\_\_

3.  $6 + 6 + 6 + 6 + 6 = 30$  \_\_\_\_\_

4.  $4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 = 32$  \_\_\_\_\_

5.  $10 + 10 + 10 + 10 + 10 = 50$  \_\_\_\_\_

#### B. Complete these multiplication tables.

##### 4 – Table

$1 \times 4 =$	_____
$2 \times 4 =$	_____
$3 \times 4 =$	_____
$4 \times 4 =$	_____
$5 \times 4 =$	_____
$6 \times 4 =$	_____
$7 \times 4 =$	_____
$8 \times 4 =$	_____
$9 \times 4 =$	_____
$10 \times 4 =$	_____

##### 6 – Table

$1 \times 6 =$	_____
$2 \times 6 =$	_____
$3 \times 6 =$	_____
$4 \times 6 =$	_____
$5 \times 6 =$	_____
$6 \times 6 =$	_____
$7 \times 6 =$	_____
$8 \times 6 =$	_____
$9 \times 6 =$	_____
$10 \times 6 =$	_____

##### 9 – Table

$1 \times 9 =$	_____
$2 \times 9 =$	_____
$3 \times 9 =$	_____
$4 \times 9 =$	_____
$5 \times 9 =$	_____
$6 \times 9 =$	_____
$7 \times 9 =$	_____
$8 \times 9 =$	_____
$9 \times 9 =$	_____
$10 \times 9 =$	_____

### C. Multiply using tables.

1.  $4 \times 5 =$  \_\_\_\_\_      2.  $6 \times 3 =$  \_\_\_\_\_      3.  $4 \times 3 =$  \_\_\_\_\_  
4.  $6 \times 7 =$  \_\_\_\_\_      5.  $9 \times 2 =$  \_\_\_\_\_      6.  $10 \times 5 =$  \_\_\_\_\_  
7.  $3 \times 7 =$  \_\_\_\_\_      8.  $6 \times 4 =$  \_\_\_\_\_      9.  $7 \times 5 =$  \_\_\_\_\_  
10.  $2 \times 9 =$  \_\_\_\_\_      11.  $8 \times 3 =$  \_\_\_\_\_      12.  $5 \times 3 =$  \_\_\_\_\_

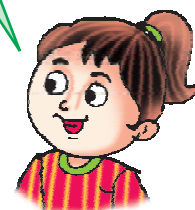
### D. Find the product.

1. 
$$\begin{array}{r} 34 \\ \times 2 \\ \hline \end{array}$$
      2. 
$$\begin{array}{r} 22 \\ \times 4 \\ \hline \end{array}$$
      3. 
$$\begin{array}{r} 33 \\ \times 3 \\ \hline \end{array}$$
      4. 
$$\begin{array}{r} 21 \\ \times 5 \\ \hline \end{array}$$
  
5. 
$$\begin{array}{r} 25 \\ \times 4 \\ \hline \end{array}$$
      6. 
$$\begin{array}{r} 28 \\ \times 3 \\ \hline \end{array}$$
      7. 
$$\begin{array}{r} 44 \\ \times 6 \\ \hline \end{array}$$
      8. 
$$\begin{array}{r} 72 \\ \times 7 \\ \hline \end{array}$$
  
9. 
$$\begin{array}{r} 34 \\ \times 9 \\ \hline \end{array}$$
      10. 
$$\begin{array}{r} 43 \\ \times 6 \\ \hline \end{array}$$
      11. 
$$\begin{array}{r} 57 \\ \times 5 \\ \hline \end{array}$$
      12. 
$$\begin{array}{r} 46 \\ \times 8 \\ \hline \end{array}$$

## PROPERTIES OF MULTIPLICATION

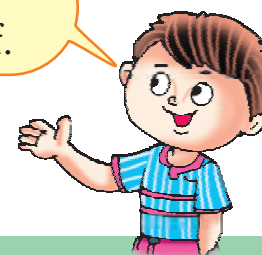
1. When we multiply 2 numbers, the order in which we multiply them does not matter. The product remains the same.

**Example :**  $6 \times 4 = 24$        $4 \times 6 = 24$   
 $9 \times 7 = 63$        $7 \times 9 = 63$



2. The product of a number and 1 is the number itself.

**Example :**  $6 \times 1 = 6$        $7 \times 1 = 7$   
 $5 \times 1 = 5$        $4 \times 1 = 4$



3. Product of a number and zero is zero.



**Example :**  $5 \times 0 = 0$        $0 \times 7 = 0$   
 $89 \times 0 = 0$        $0 \times 0 = 0$

Now, let us discover another property of multiplication.

Consider the numbers 3, 4 and 5.

We group any two of the numbers and then multiply their product by the third number.

$$(3 \times 4) \times 5 = 12 \times 5 = 60 \qquad (4 \times 5) \times 3 = 20 \times 3 = 60$$

$$(3 \times 5) \times 4 = 15 \times 4 = 60$$

So, remember

4. When you multiply three numbers grouping them in any order, the product is always the same.



### **E**xercise 4.1

**Use the properties of multiplication to fill in the blanks.**

1.  $10 \times 1 = \underline{\hspace{2cm}}$
2.  $8 \times 9 = 9 \times \underline{\hspace{2cm}}$
3.  $105 \times 0 = \underline{\hspace{2cm}}$
4.  $23 \times 1 = \underline{\hspace{2cm}}$
5.  $(5 \times 6) \times 7 = (5 \times \underline{\hspace{1cm}}) \times 6$
6.  $5 \times 6 = 6 \times \underline{\hspace{2cm}}$
7.  $88 \times 0 = \underline{\hspace{2cm}}$
8.  $4 \times (7 \times 8) = 7 \times (\underline{\hspace{1cm}} \times 8)$
9.  $44 \times 0 = \underline{\hspace{2cm}}$
10.  $66 \times 33 = \underline{\hspace{2cm}} \times 66$
11.  $43 \times 19 \times 28 = 19 \times \underline{\hspace{1cm}} \times 28$
12.  $6507 \times 0 = \underline{\hspace{2cm}}$
13.  $9999 \times 1 = \underline{\hspace{2cm}}$
14.  $238 \times 42 = 42 \times \underline{\hspace{2cm}}$
15.  $8000 \times 0 = \underline{\hspace{2cm}}$
16.  $456 \times 5 \times 72 = 72 \times 5 \times \underline{\hspace{2cm}}$
17.  $222 \times 100 = 100 \times \underline{\hspace{2cm}}$
18.  $354 \times 312 \times 0 = \underline{\hspace{2cm}}$



## MULTIPLYING A 3-DIGIT NUMBER BY A 1-DIGIT NUMBER

You have learnt to multiply a 2-digit number by a 1-digit number in Class 2. Multiplying a 3-digit number is similar.

### Multiplying without regrouping

**Example :** Multiply 342 by 2.

#### Solution :

Write the numbers as shown.

**Step 1 :** Multiply 2 ones by 2 :

$$2 \text{ ones} \times 2 = 4 \text{ ones}$$

Write 4 in the ones column.

**Step 2 :** Multiply 4 tens by 2 :

$$4 \text{ tens} \times 2 = 8 \text{ tens}$$

Write 8 in the tens column.

**Step 3 :** Multiply 3 hundreds by 2 :

$$3 \text{ hundreds} \times 2 = 6 \text{ hundreds}$$

Write 6 in the hundreds column.

**Answer :** 684

H	T	O
3	4	2
	×	2
6	8	4



## Exercise 4.2

Multiply the following.

1. 

H	T	O
2	3	3
	×	3

2. 

H	T	O
2	1	2
	×	4

3. 

H	T	O
1	1	0
	×	5

4. 

H	T	O
3	4	4
	×	2

5. 

H	T	O
1	0	1
	×	8

6. 

H	T	O
1	1	1
	×	7

7. 

H	T	O
2	2	2
	×	4

8. 

H	T	O
3	0	2
	×	3

## Multiplying with regrouping

**Example 1 :** Multiply 314 by 6.

**Solution :**

**Step 1 :** Multiply 4 ones by 6.

$$4 \text{ ones} \times 6 = 24 \text{ ones}$$

Regroup : 24 ones = 2 tens + 4 ones

Write 4 in the ones column.

Carry 2 to the tens column.

Th	H	T	O
		2	
	3	1	4
		×	6
1	8	8	4

**Step 2 :** Multiply 1 ten by 6.

$$1 \text{ ten} \times 6 = 6 \text{ tens}$$

Add the carried over : 2 tens + 6 tens = 8 tens

Write 8 in the tens column.

**Step 3 :** Multiply 3 hundreds by 6.

$$3 \text{ hundreds} \times 6 = 18 \text{ hundreds.}$$

18 hundreds = 1 thousand + 8 hundreds.

Write 8 in the hundreds column and 1 in the thousands column.

**Answer :** 1884

**Example 2 :** Find the product :  $265 \times 7$

**Solution :**

**Step 1 :** Multiply 5 ones by 7.

5 ones  $\times$  7 = 35 ones. Write 5 in the ones place and carry 3 to the tens column.

**Step 2 :** Multiply 6 tens by 7.

$$6 \text{ tens} \times 7 = 42 \text{ tens.}$$

carried 3 tens + 42 tens = 45 tens. Write 5 in tens place and carry 4 to the hundreds column.

Th	H	T	O
	4	3	
	2	6	5
		×	7
1	8	5	5

**Step 3 :** Multiply 2 hundreds by 7.

$$2 \text{ hundreds} \times 7 = 14 \text{ hundreds.}$$

carried 4 hundreds + 14 hundreds = 18 hundreds.

Write 8 in the hundreds place and 1 in the thousands place.

**Answer :** 1855

## Exercise 4.3

### A. Multiply the following.

1. 

H	T	O
3	0	4
× 3		

2. 

H	T	O
2	4	5
× 2		

3. 

H	T	O
1	1	8
× 4		

4. 

H	T	O
1	6	0
× 5		

### B. Multiply the following.

1. 

Th	H	T	O
2	8	4	
× 5			

2. 

Th	H	T	O
3	4	5	
× 6			

3. 

Th	H	T	O
5	4	8	
× 4			

4. 

Th	H	T	O
7	4	6	
× 6			

5. 

Th	H	T	O
3	7	4	
× 5			

6. 

Th	H	T	O
4	9	4	
× 6			

7. 

Th	H	T	O
5	4	8	
× 7			

8. 

Th	H	T	O
8	5	6	
× 9			

9. 

Th	H	T	O
3	2	3	
× 8			

10. 

Th	H	T	O
5	7	0	
× 8			

11. 

Th	H	T	O
5	9	7	
× 8			

12. 

Th	H	T	O
4	6	2	
× 6			

## WORD PROBLEMS

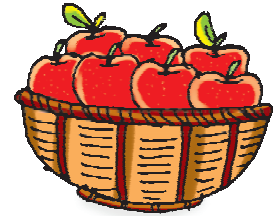
**Example :** There are 36 apples in a box. How many apples are there in 8 boxes ?

**Solution :** Number of apples in one box = 36  
 Number of apples in 8 boxes =  $36 \times 8$   
 $= 288$

H	T	O
3	6	
× 8		
288		

## Exercise 4.4

1. The cost of a school bag is ₹ 48. How much will 9 school bags cost ?
2. There are 7 days in a week. How many days are there in 63 weeks ?
3. 55 people can travel in a bus. How many people can travel in 6 buses ?
4. There are 60 minutes in an hour. How many minutes are there in 9 hours ?
5. There are 156 apples in a basket. How many apples are there in 9 baskets ?
6. In a grove, there are 9 rows of trees. In each row, there are 52 trees. How many trees are there in the grove ?
7. A car travels 58 kilometres in an hour. How many kilometres does it travel in 5 hours ?
8. Each child in the class needs 7 exercise books. There are 32 children in the class. How many exercise books are needed in all ?
9. If a book costs ₹ 7, how much will 253 books cost ?



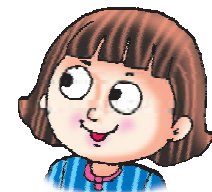
### MULTIPLYING BY TENS

Take a look at the following examples :

$$3 \times 10 = 30 \quad 7 \times 10 = 70 \quad 20 \times 10 = 200 \quad 15 \times 10 = 150$$

Do you find something in common ?

When we multiply a number by 10, we simply put a zero to the right of the number.



If we have to multiply a number by 20, 30, ..., 90 then what do we do ?

**Example :**  $7 \times 20$  or  $7 \times 2$  tens = 14 tens = 140.

When we multiply a number by 10, 20, 30, ..., 90 we multiply the number by 1, 2, 3, ..., 9 and put a zero on the right of the product.



## MULTIPLYING BY HUNDREDS

$$5 \times 100 = 5 \times 1 \text{ hundred} = 5 \text{ hundreds} = 500$$

$$8 \times 200 = 8 \times 2 \text{ hundreds} = 16 \text{ hundreds} = 1600$$

$$13 \times 300 = 13 \times 3 \text{ hundreds} = 39 \text{ hundreds} = 3900$$

When we multiply a number by 100, 200, ..., 900 we multiply the given number by 1, 2, ..., 9 and write two zeros on the right of the product.

## Exercise 4.5

Multiply the following.

1.  $31 \times 30$       2.  $16 \times 20$       3.  $15 \times 30$       4.  $21 \times 100$

5.  $11 \times 800$       6.  $10 \times 800$       7.  $34 \times 200$       8.  $19 \times 100$

9.  $64 \times 70$       10.  $17 \times 500$       11.  $19 \times 400$       12.  $9 \times 800$

## MULTIPLYING BY 2-DIGIT NUMBERS

**Example :** Multiply  $74 \times 28$

**Solution :**  $28 = 20 + 8$

74 is multiplied by  $20 + 8$ , or

74 is multiplied by 20 and 74 is multiplied by 8

and the two products are added.

$$74 \times 20 = 1480$$

$$74 \times 8 = 592$$

$$1480 + 592 = 2072$$

**Answer :** 2072

Short method

Th	H	T	O
		7	4
		×	28
<hr/>			
	5	9	2
1	4	8	0
<hr/>			
2	0	7	2

→  $74 \times 8$   
→  $74 \times 20$   
→  $74 \times 28$

## Exercise 4.6

Multiply the following in your note book.

1. 

Th	H	T	O
	1	9	
	×	1	7

2. 

Th	H	T	O
	4	6	
	×	2	9

3. 

Th	H	T	O
	6	0	
	×	4	2

4. 

Th	H	T	O
	6	8	
	×	2	7

5. 

Th	H	T	O
	4	1	
	×	5	9

6. 

Th	H	T	O
	2	6	
	×	3	5

7. 

Th	H	T	O
	4	9	
	×	1	8

8. 

Th	H	T	O
	7	2	
	×	2	6

9. 

Th	H	T	O
	6	9	
	×	4	7

10. 

Th	H	T	O
	2	1	8
	×	4	5

11. 

Th	H	T	O
	3	0	9
	×	2	4

12. 

Th	H	T	O
	2	9	0
	×	3	2

13. 

Th	H	T	O
	6	9	
	×	2	2

14. 

Th	H	T	O
	7	9	
	×	5	4

15. 

Th	H	T	O
	5	6	
	×	9	4

16. 

Th	H	T	O
	8	6	
	×	8	4

17. 

Th	H	T	O
	4	2	
	×	6	9

18. 

Th	H	T	O
	1	4	6
	×	3	3

19. 

Th	H	T	O
	9	3	
	×	7	8

20. 

Th	H	T	O
	1	2	8
	×	1	7

## WORD PROBLEMS

**Example :** A bus can carry 38 passengers. How many passengers can 42 such buses carry ?

**Solution :**

$$\begin{aligned} \text{One bus carries} &= 38 \text{ passengers} \\ \text{So, 42 buses carry} &= 38 \times 42 \\ &= 1596 \text{ passengers} \end{aligned}$$

H	T	O
	3	8
	×	42
<hr/>		
	7	6
1	5	20
<hr/>		
1	5	96

## Exercise 4.7

1. Multiply the largest 3-digit number by the largest 1-digit number.
2. There are 7 days in a week. How many days are there in 52 weeks ?

3. There are 9 packets of erasers, each containing 100 erasers. How many erasers are there in all ?



4. There are 85 sweets in a tin. How many sweets are there in 35 tins ?



5. There are 64 pages in a note book. How many pages are there in 38 such note books ?



6. In a cinema theatre, there are 136 rows of chairs. In each row there are 72 chairs. How many chairs are there in all ?



7. How many pencils are there in 98 packets of 50 pencils each ?



8. Mr. Sinha has 85 notes of ₹ 20. How much money does he have ?

9. In a coconut grove, there are 36 rows of coconut trees. In each row, there are 90 trees. How many coconut trees are there in the grove ?

# WORKSHEET

## A. Multiply the following.

- |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
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| 3  | 1                                                                                                                                                                                                          | 4  |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| ×  | 2                                                                                                                                                                                                          |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
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| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| 5  | 6                                                                                                                                                                                                          | 8  |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| ×  | 3                                                                                                                                                                                                          |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| 7  | 2                                                                                                                                                                                                          | 1  |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| ×  | 4                                                                                                                                                                                                          |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| 7  | 2                                                                                                                                                                                                          | 2  |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| ×  | 5                                                                                                                                                                                                          |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| 5. | <table border="1"><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>6</td><td>1</td><td>3</td><td></td></tr><tr><td>×</td><td>7</td><td></td><td></td></tr><tr><td colspan="4"> </td></tr></table> | Th | H | T | O | 6 | 1 | 3 |  | × | 7 |  |  |  |  |  |  | 6. | <table border="1"><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>8</td><td>9</td><td>5</td><td></td></tr><tr><td>×</td><td>7</td><td></td><td></td></tr><tr><td colspan="4"> </td></tr></table> | Th | H | T | O | 8 | 9 | 5 |  | × | 7 |  |  |  |  |  |  | 7. | <table border="1"><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>1</td><td>4</td><td>5</td><td></td></tr><tr><td>×</td><td>3</td><td></td><td></td></tr><tr><td colspan="4"> </td></tr></table> | Th | H | T | O | 1 | 4 | 5 |  | × | 3 |  |  |  |  |  |  | 8. | <table border="1"><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>7</td><td>3</td><td>4</td><td></td></tr><tr><td>×</td><td>8</td><td></td><td></td></tr><tr><td colspan="4"> </td></tr></table> | Th | H | T | O | 7 | 3 | 4 |  | × | 8 |  |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| 6  | 1                                                                                                                                                                                                          | 3  |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| ×  | 7                                                                                                                                                                                                          |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| 8  | 9                                                                                                                                                                                                          | 5  |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| ×  | 7                                                                                                                                                                                                          |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| 1  | 4                                                                                                                                                                                                          | 5  |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| ×  | 3                                                                                                                                                                                                          |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| 7  | 3                                                                                                                                                                                                          | 4  |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
| ×  | 8                                                                                                                                                                                                          |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |   |  |   |   |  |  |  |  |  |  |

## B. Find the product by multiplying numbers.

- |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|---|---|---|--|--|---|---|---|--|--|--|--|--|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|---|---|---|--|--|---|---|---|--|--|--|--|--|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|---|---|---|---|--|---|---|---|--|--|--|--|--|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|---|---|---|---|--|---|---|---|--|--|--|--|--|
| 1. | <table border="1"><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>4</td><td>4</td><td></td><td></td></tr><tr><td>×</td><td>3</td><td>5</td><td></td></tr><tr><td colspan="4"> </td></tr></table> | Th | H | T | O | 4 | 4 |  |  | × | 3 | 5 |  |  |  |  |  | 2. | <table border="1"><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>7</td><td>8</td><td></td><td></td></tr><tr><td>×</td><td>6</td><td>3</td><td></td></tr><tr><td colspan="4"> </td></tr></table> | Th | H | T | O | 7 | 8 |  |  | × | 6 | 3 |  |  |  |  |  | 3. | <table border="1"><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>8</td><td>3</td><td></td><td></td></tr><tr><td>×</td><td>4</td><td>1</td><td></td></tr><tr><td colspan="4"> </td></tr></table>  | Th | H | T | O | 8 | 3 |   |  | × | 4 | 1 |  |  |  |  |  | 4. | <table border="1"><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>5</td><td>6</td><td></td><td></td></tr><tr><td>×</td><td>7</td><td>8</td><td></td></tr><tr><td colspan="4"> </td></tr></table>  | Th | H | T | O | 5 | 6 |   |  | × | 7 | 8 |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| 4  | 4                                                                                                                                                                                                          |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| ×  | 3                                                                                                                                                                                                          | 5  |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| 7  | 8                                                                                                                                                                                                          |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| ×  | 6                                                                                                                                                                                                          | 3  |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| 8  | 3                                                                                                                                                                                                          |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| ×  | 4                                                                                                                                                                                                          | 1  |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| 5  | 6                                                                                                                                                                                                          |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| ×  | 7                                                                                                                                                                                                          | 8  |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| 5. | <table border="1"><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>9</td><td>6</td><td></td><td></td></tr><tr><td>×</td><td>3</td><td>7</td><td></td></tr><tr><td colspan="4"> </td></tr></table> | Th | H | T | O | 9 | 6 |  |  | × | 3 | 7 |  |  |  |  |  | 6. | <table border="1"><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>8</td><td>6</td><td></td><td></td></tr><tr><td>×</td><td>1</td><td>5</td><td></td></tr><tr><td colspan="4"> </td></tr></table> | Th | H | T | O | 8 | 6 |  |  | × | 1 | 5 |  |  |  |  |  | 7. | <table border="1"><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>1</td><td>4</td><td>1</td><td></td></tr><tr><td>×</td><td>5</td><td>3</td><td></td></tr><tr><td colspan="4"> </td></tr></table> | Th | H | T | O | 1 | 4 | 1 |  | × | 5 | 3 |  |  |  |  |  | 8. | <table border="1"><tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td>2</td><td>9</td><td>5</td><td></td></tr><tr><td>×</td><td>2</td><td>6</td><td></td></tr><tr><td colspan="4"> </td></tr></table> | Th | H | T | O | 2 | 9 | 5 |  | × | 2 | 6 |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| 9  | 6                                                                                                                                                                                                          |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| ×  | 3                                                                                                                                                                                                          | 7  |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| 8  | 6                                                                                                                                                                                                          |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| ×  | 1                                                                                                                                                                                                          | 5  |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| 1  | 4                                                                                                                                                                                                          | 1  |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| ×  | 5                                                                                                                                                                                                          | 3  |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| Th | H                                                                                                                                                                                                          | T  | O |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| 2  | 9                                                                                                                                                                                                          | 5  |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
| ×  | 2                                                                                                                                                                                                          | 6  |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |
|    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                            |    |   |   |   |   |   |  |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |    |                                                                                                                                                                                                             |    |   |   |   |   |   |   |  |   |   |   |  |  |  |  |  |

## C. Multiply the following.

- |                    |                     |                    |                     |
|--------------------|---------------------|--------------------|---------------------|
| 1. $8 \times 1000$ | 2. $5 \times 40$    | 3. $8 \times 20$   | 4. $6 \times 70$    |
| 5. $40 \times 60$  | 6. $9 \times 700$   | 7. $80 \times 90$  | 8. $40 \times 30$   |
| 9. $50 \times 80$  | 10. $11 \times 900$ | 11. $5 \times 600$ | 12. $10 \times 300$ |

## D. Solve these word problems.

- There are 72 pages in a book. How many pages are there in 42 such books ?
- How many sweets are there in 65 packets of 100 sweets each ?

## MATHS LAB

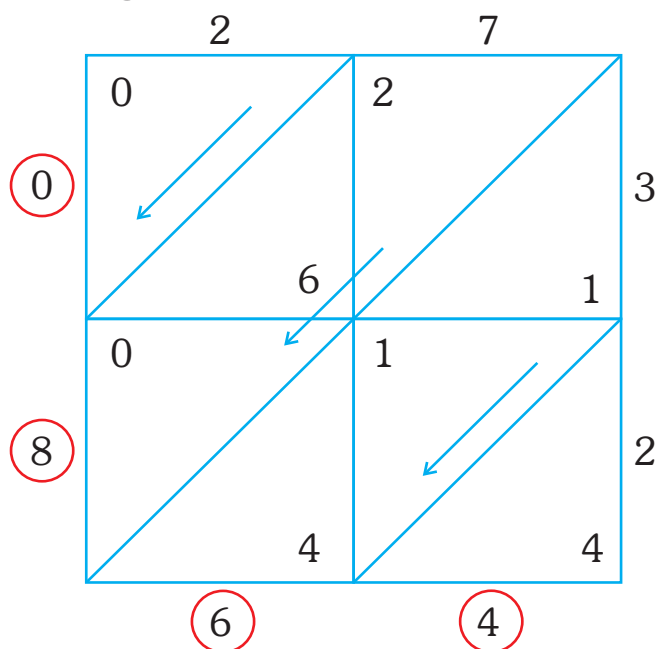
**Objective :** Multiplying the 2-digit numbers on Napier's Cards

**Materials Required :** A multiplication problem from your teacher and a card from the Math kit

**Preparation :** Students will do this activity individually and repeat it as many times as the cards are available in their math kit.

**Steps :** To solve a problem on Napier's cards, say  $27 \times 32$  students can take the following steps.

1. Multiplication is rows  $\times$  columns. 27 is a 2-digit number. 32 is also a 2-digit number. Take a card from your math kit. The upper triangle shows the tens and the lower triangle shows the units or ones of the products. The numbers to be multiplied are shown on top and along the right side.
2. Multiply 7 by 3 and you get 21. There are 2 tens and 1 one. So, write 1 in the lower triangle and 2 in the upper triangle.
3. Next, multiply  $2 \times 3 = 6$ . There are no tens. Write 6 in the lower triangle and 0 in the upper triangle.
4. Now, multiply  $7 \times 2 = 14$ . So, write 4 in the lower triangle and 1 in the upper triangle of right column.
5. Multiply  $2 \times 2 = 4$ . Write 4 in the lower triangle of the left column.
6. Add the numbers and write the sums below, outside the box. Start reading from the left top, i.e., as 0864. Since a number cannot begin with a zero (0) the answer is 864.



So,  $27 \times 32 = 864$ .