



legs. In all, spider legs are 3 times

How many spiders?

Leggy Animals

There are 5 goats. How many legs altogether? 4 + 4 + 4 + 4 + 4 = 20

or 5 times 4 is 20

or $5 \times 4 = 20$

Do you know this leggy fellow? This is an octopus.

It lives in the sea.

It also has 8 legs.

So how many legs altogether do 5 octopuses have?

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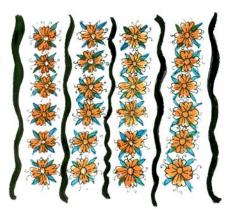
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Find the Number without Counting

How many flowers in a flower bed? It has 4 columns. Each column has 6 flowers. So altogether the flower bed has 4 times 6 flowers,

6 + 6 + 6 + 6 = 24 or $4 \times 6 = 24$



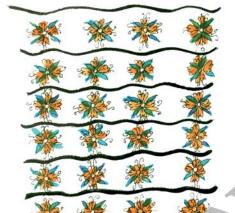
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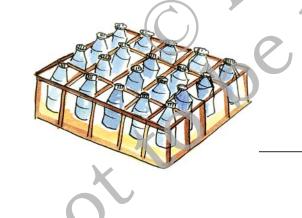
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Let's try another way. The flower bed has 6 rows. Each row has 4 flowers. Altogether the flower bed has 6 times 4 flowers,

4 + 4 + 4 + 4 + 4 + 4 = 24or $6 \times 4 = 24$



_ = ____ eggs

How many eggs?

_ times ____

In the same way, how many bottles are these?

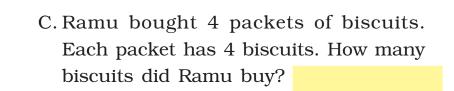
_ times _____ = ____ bottles



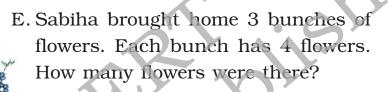


Practice Time

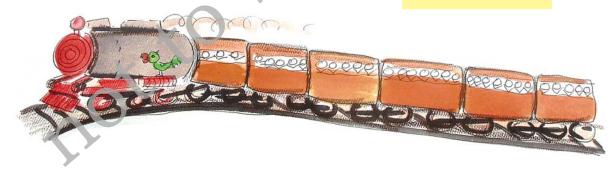
A. *Rewrite using the* + *sign.* 2×5 is 2 times 5 or 5+5 $4 \times 18 \text{ is } 4 \text{ times } ----+ + ---+$ 3×20 is _____ times _____ or ____+ __ 8×9 is _____ times _____ or _ + ____ + _____ + _____ + _ B. Tell how many times! 9 + 9 + 9 + 9 + 9 + 9= 6 × = 54 9 $= 5 \times 4$ = 20 4 + 4 + 4 + 4 + 48 + 8 + 8 3 + 3 + 3 + 3 + 3 + 330 + 30 + 30Х 7 + 7 + 7 + 7 + 7 + 7 + 7 \times _ 12 + 12 + 12 + 12= ____ × 12 = _____ 6 + 6 + 6= ____ × ____ = _ 10 + 10 + 10 + 10= ____ × _ 2 + 2 + 2 + 2 + 2= ____ × _ $6 + 6 + 6 + 6 + 6 + 6 + 6 = _ x _ = _$ 124



D. There are 12 desks in a classroom. Each desk has 4 legs. What is the total number of legs of the desks?



F. One rail coach has 8 wheels. How many wheels in all in 6 coaches?

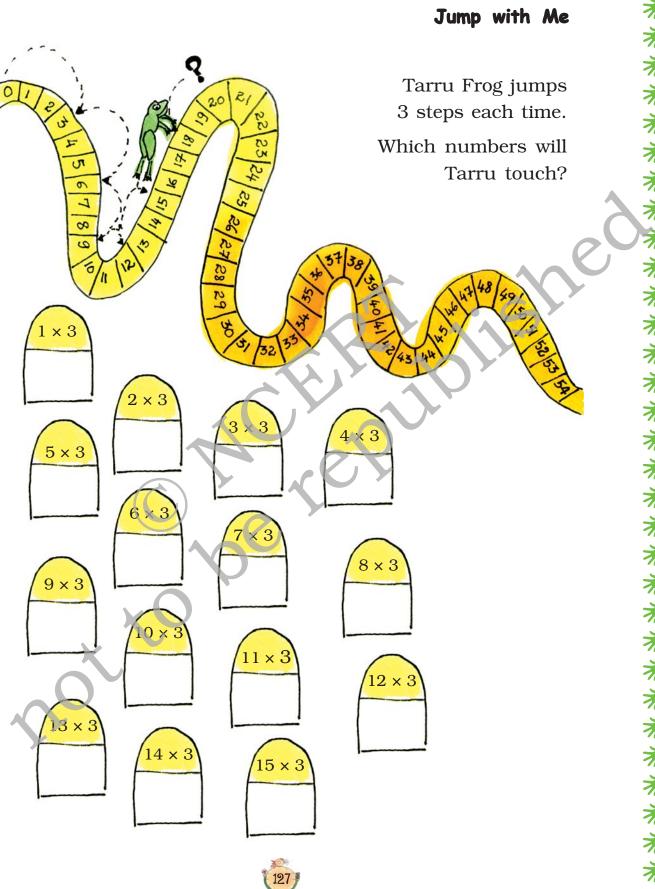


After children attempt word problems, there should be a discussion on how they arrived at their answers. This will help children develop a conceptual understanding of multiplication.

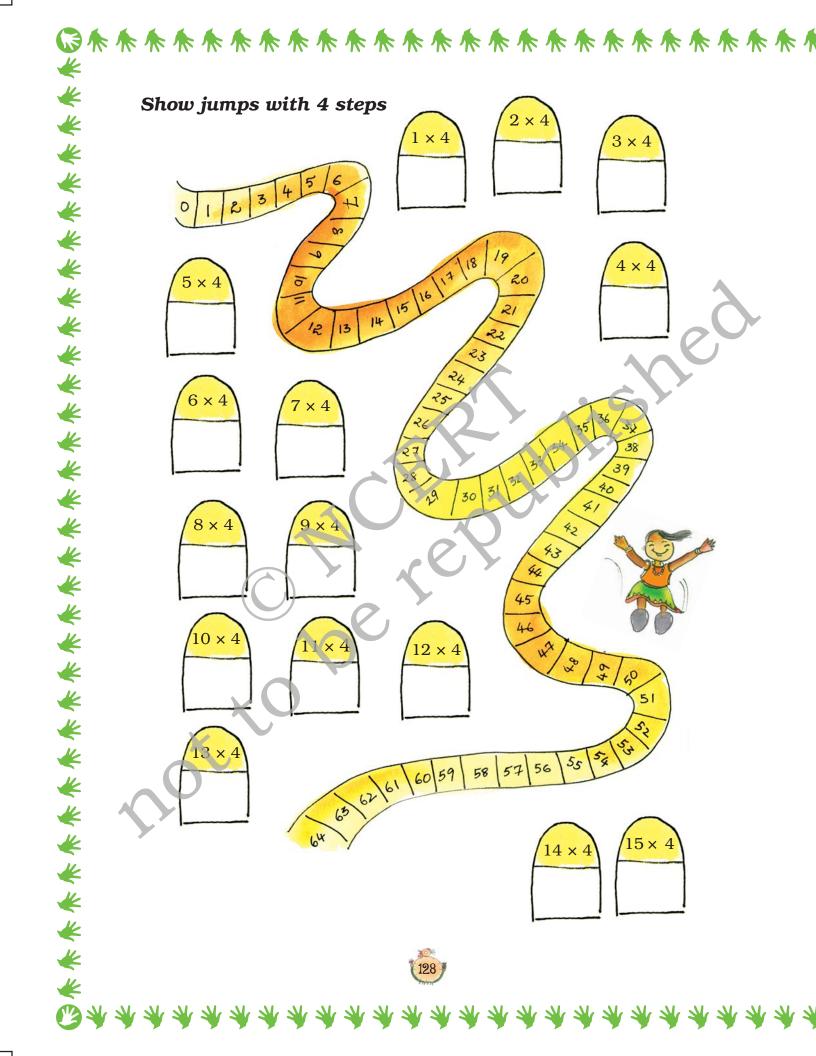


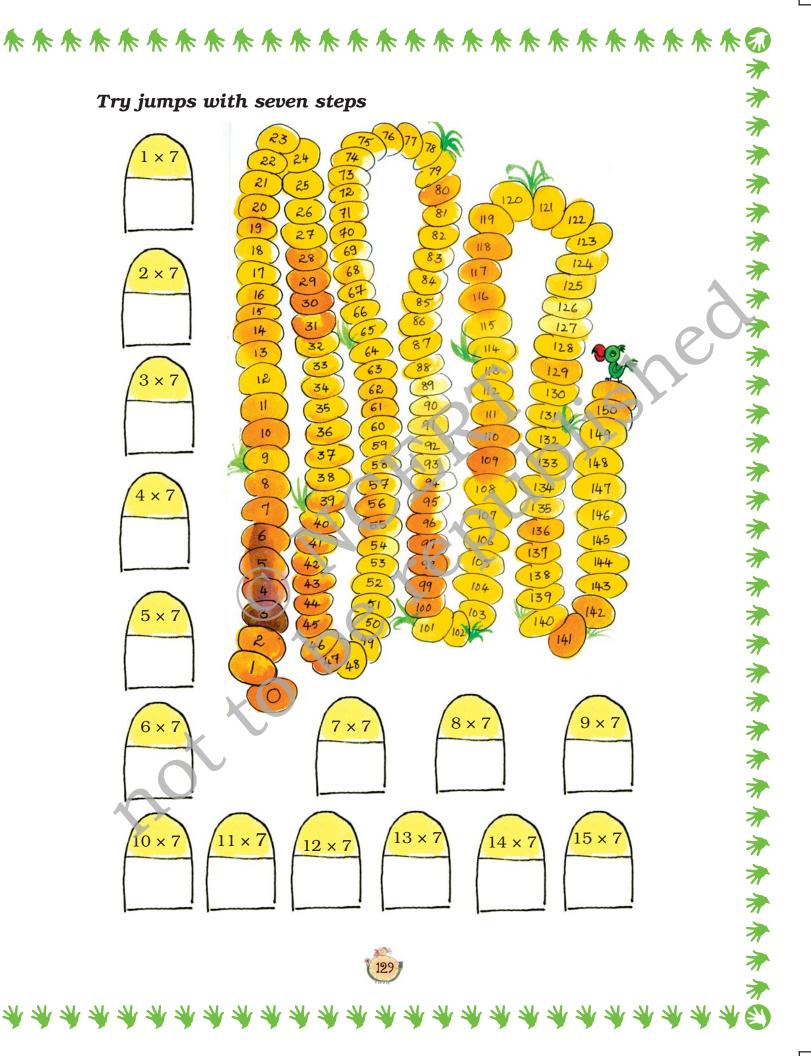
	· 朱永永永永永永永永永永永永永永永 How Many Times 2?						
	 ○ 						
	1 time 2 is 2 or $1 \times 2 = 2$ 2 times 2 is 4 or $2 \times 2 = 4$						
	3 times 2 is 6 or $3 \times 2 = 6$ 4 times 2 is or $4 \times 2 = \$ 5 times 2 is or $5 \times 2 = \$						
	6 times 2 is or 6×2 = times 2 is or 6×2 = times is or 8×2 =						

* * *	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						



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©********************** **Stick Play** Mithu had some sticks. She arranged them like this: 1 time 5 = 52 times 5 = 103 times 5 = 154 times 5 = 20Then she counted how many times the sticks were crossing each other. She found that 4 times $5 = 4 \times 5 = 20$ Let's try making a 2 times table with sticks: 1×2 $2 \times 2 = 4$ 10 $3 \times 2 = 6$ $4 \times 2 =$ $5 \times 2 =$ $6 \times 2 =$ $7 \times 2 =$ $8 \times 2 =$ $9 \times 2 =$ $10 \times 2 =$

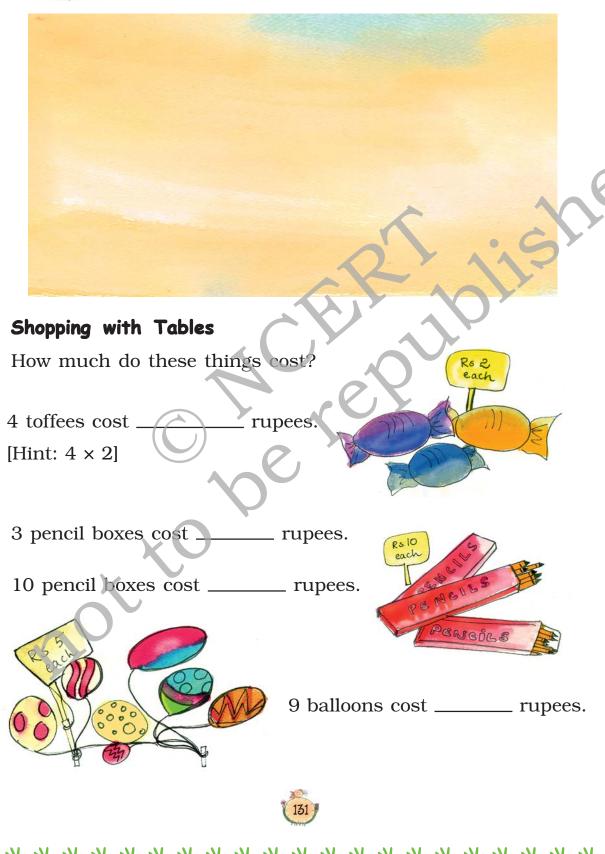
Children can be given 16 and 24 sticks to arrange and encouraged to try different arrangements like 4×4 , 2×8 , 8×2 for 16 sticks and 12×2 , 8×3 , 4×6 , 6×4 , 3×8 , 2×12 for 24 sticks.



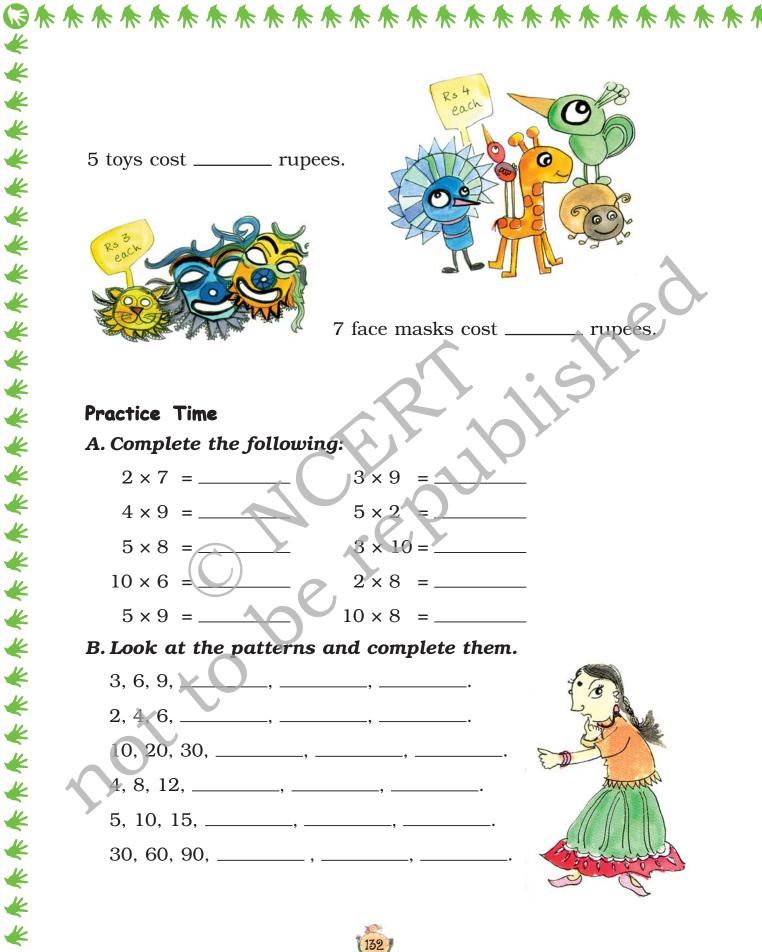




Now draw sticks to make the multiplication table of 6:



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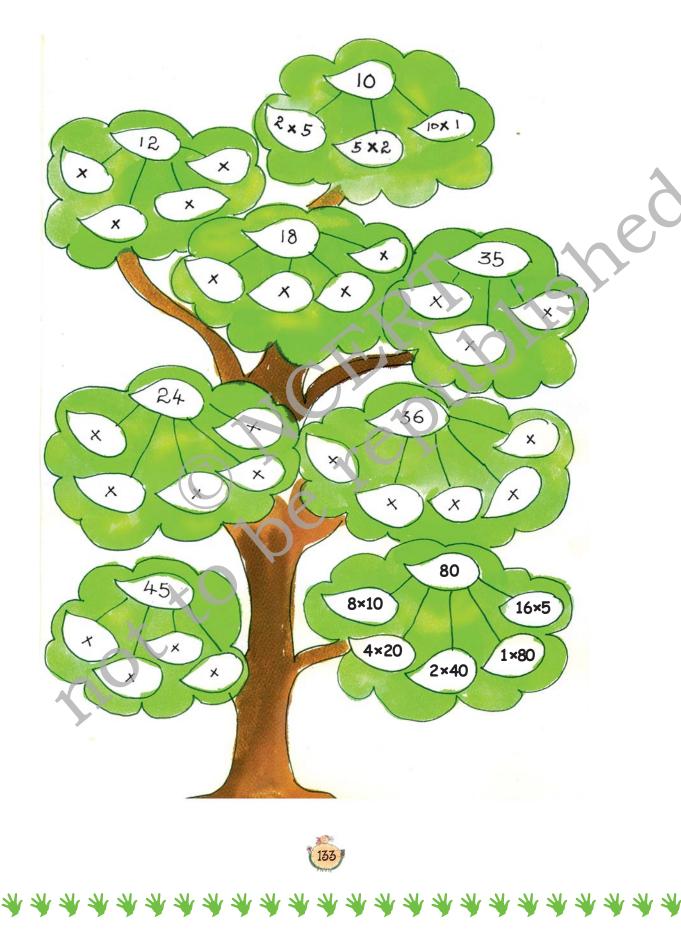




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C. Complete the multiplication tree



D. How many in all?

* The almirah has 4 shelves. There are 5 books in each shelf. How many books are in the almirah?



 $4 \times 5 = 20$ books



* A shirt has 5 buttons. How many buttons would 3 shirts have?

* There are four fans. Each fan has 3 blades. What is the total number of blades in all?

* A box contains 6 apples. How many apples in all will seven boxes have?





How many corners would 4 triangles have?

E. Some multiplication facts:

◆ 8 × 3 =	✤ 5 × = 35
◆ 3 × =	✤ × 6 = 36
× =42	✤ 10 × =
✤ 5 × =40	✤ × 9 = 36
★ × =54	✤ × 7 = 28



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 Multiplication Table of 1

 one time one is
 1 × 1 =

two times one is	2 × 1= 2
three times one is	3 × =
four times one is	× =
times one is	× =
times one is	× =
times one is	× =
times one is	× =

Multiplying Big Numbers

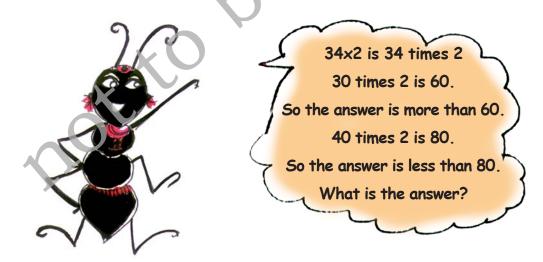
A. Two toffees were given to each student in the class. If there were 34 students, how many toffees were given in all?

1

Total students present = 34

Each student gets 2 toffees.

So total number of toffees given is 34×2 .

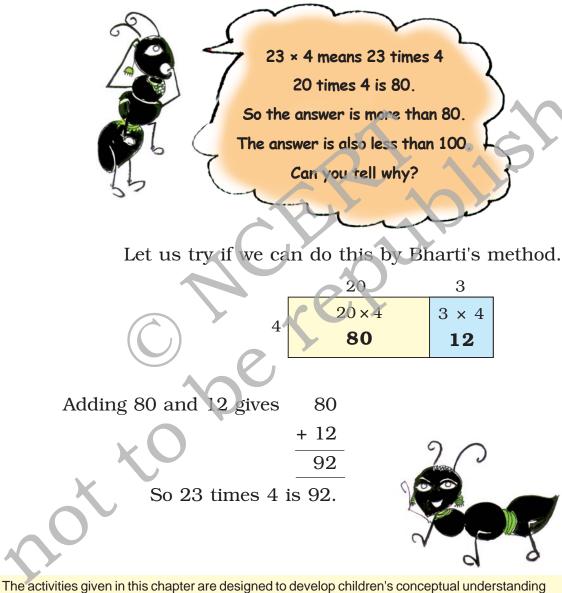








B. In a picnic 4 fruits were given to every student. The number of students was 23. Find out the total number of fruits given.
Number of students in the picnic = 23
Fruits given to each student = 4
Total number of fruits = 23 × 4



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The activities given in this chapter are designed to develop children's conceptual understanding of multiplication. The standard method for multiplying larger numbers may be efficient, but teaching it too early may actually hinder learning. The method given here builds on children's growing sense of two-digit and three-digit numbers. Children should also be encouraged to estimate the result of the operation.



Practice Time	
A. Multiply:	
	♣ 43 × 2 =
	◆ 24 × 2 =
↓ 11 × 5 =	♣ 30 × 5 =
✤ 26 × 4 =	
	◆ 24 × 5 =
	♣ 48 × 4 =
→ 32 × 5 = → → →	

B. First guess the answer and then calculate:

* A flower has five petals. A bunch of flowers has 13 flowers. How many petals are there in the bunch?

* A book has 64 pages. What will be the total number of pages in 8 such books?

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Students stand in rows in the assembly. There are six rows of students. Each row has 17 students. How many students are there?

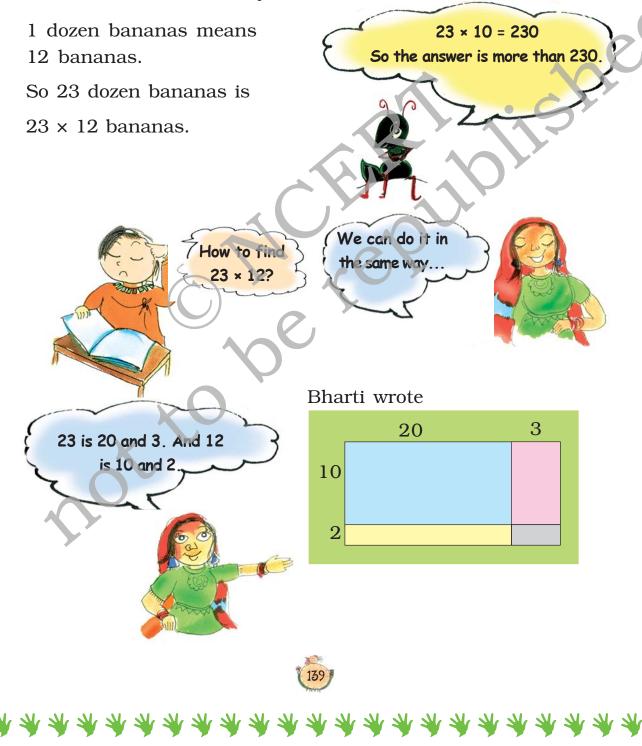


* A design has 3 flowers in it. A piece of cloth has 17 such designs. How many flowers will be on the cloth?



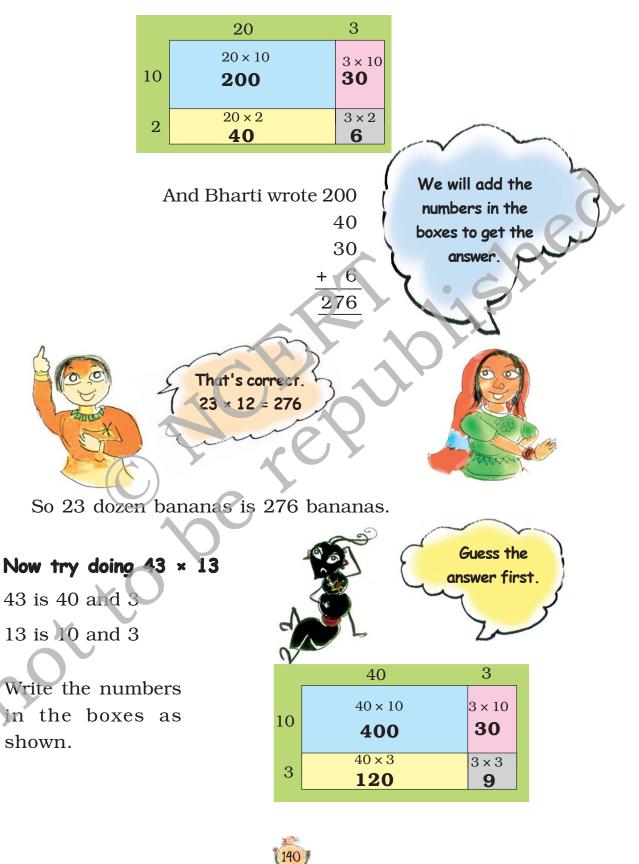
How many in 23 dozen?

Many things are sold by the dozen. For example, bangles and bananas are often sold by the dozen.



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Next Bharti wrote



Add the numbers in the boxes:

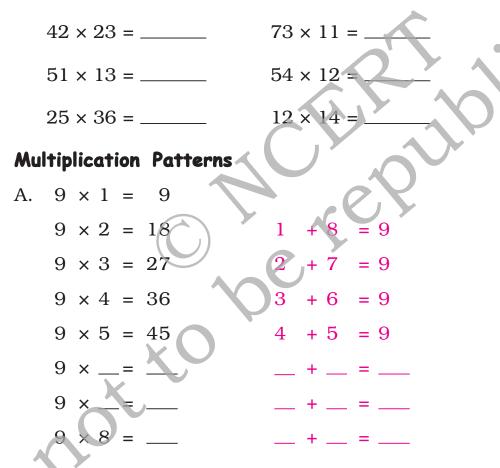
40)0
12	20
Ċ	30
+	9
55	59



So 43 × 13 = 559

Practice Time

First guess the answer and then check it by calculating :



Did you see the pattern in the 9 times table? What numbers are adding up to 9?

Observing patterns in multiplication tables deepens the understanding of the number system.

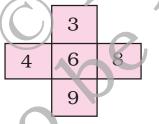




B. Complete the grid by multiplying the numbers

×	1	2	3	4	5	6	7	8	9	10	
1	1	2	3	4	5	6	7	8	9	10	
2	2	4	6	8	10	12	14	16	18	20	
3	3	6	9	12	15	18	21	24	27	30	•
4											\mathbf{c}
5											C
6										X	
7									•	5'	
8						K					
9				Ċ	N.)					
10					ノ			<i>y</i>			

Look at the cross in your grid



Add the numbers together from top to bottom.

$$3 + 6 + 9 = 18$$

Add the numbers together from left to right.

4 + 6 + 8 = 18

The total is the same.

Look for other such crosses and copy them in your notebook.

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- C. * Mark the numbers 1–10 in the same grid in one colour.
 - Mark the numbers 12–20 in another colour. 畿
 - Similarly mark 21–30 in a third colour. ₩

Do you see any colour pattern?

