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How Many Times?





Leggy Animals

There are 5 goats.

How many legs altogether?

$$4 + 4 + 4 + 4 + 4 = 20$$

or 5 times 4 is 20

or
$$5 \times 4 = 20$$



How many spiders?_

One spider has _____ legs.

In all, spider legs are 3 times.



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?



Give me your hand, hand, hand,!

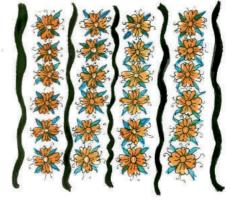


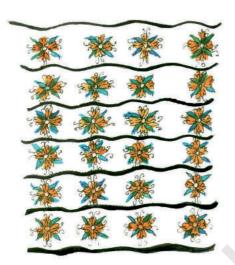
Find the Number without Counting

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 $4 \times 6 = 24$

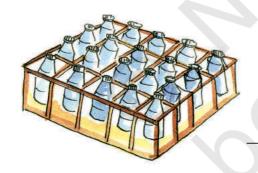




Let's try another way. The flower bed has 6 rows. Each row has 4 flowers. Altogether the flower bed has 6 times 4 flowers,

$$4 + 4 + 4 + 4 + 4 + 4 = 24$$

or $6 \times 4 = 24$



In the same way, how many bottles are these?

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____ times ____ = ____ bottles

How many eggs?

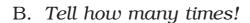


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Practice Time

A. Rewrite using the + sign.

$$2 \times 5$$
 is 2 times 5 or $5 + 5$



$$9 + 9 + 9 + 9 + 9 + 9 = 6 \times 9 = 54$$

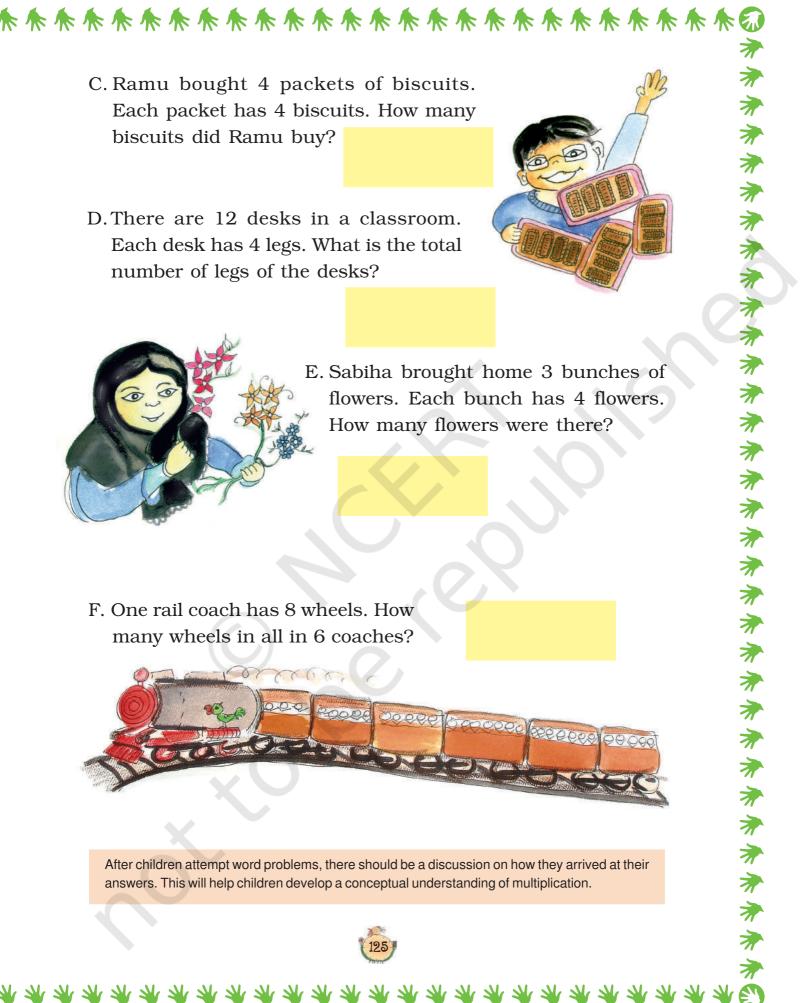
$$4 + 4 + 4 + 4 + 4 = 5 \times 4 = 20$$

$$3 + 3 + 3 + 3 + 3 = 5 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

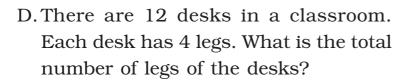
$$7 + 7 + 7 + 7 + 7 + 7 + 7 =$$

$$6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 =$$
____ \times ___ = _





C. Ramu bought 4 packets of biscuits. Each packet has 4 biscuits. How many biscuits did Ramu buy?







E. Sabiha brought home 3 bunches of flowers. Each bunch has 4 flowers. How many flowers were there?

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

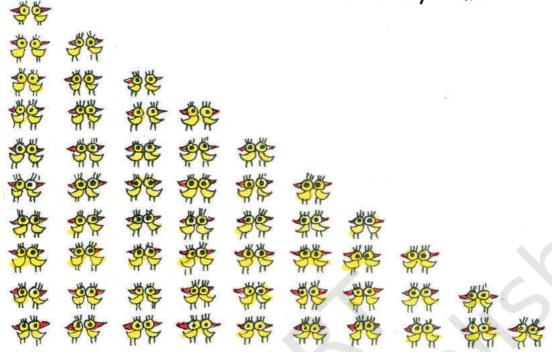


After children attempt word problems, there should be a discussion on how they arrived at their answers. This will help children develop a conceptual understanding of multiplication.

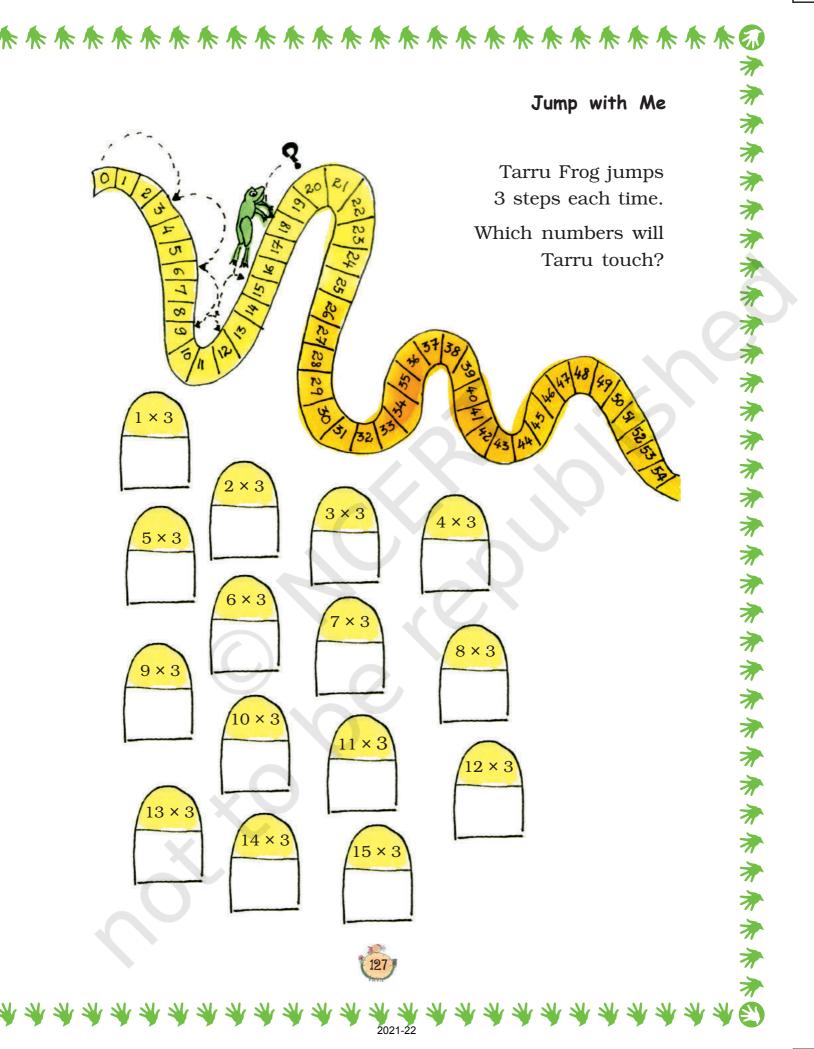


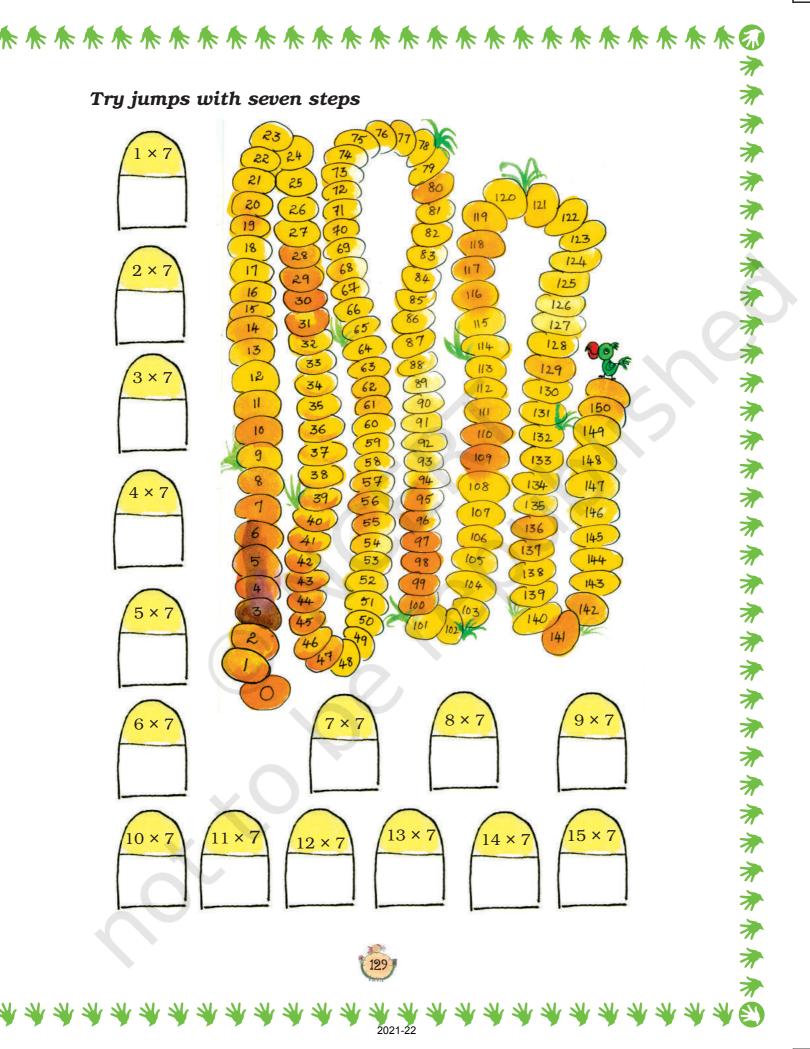
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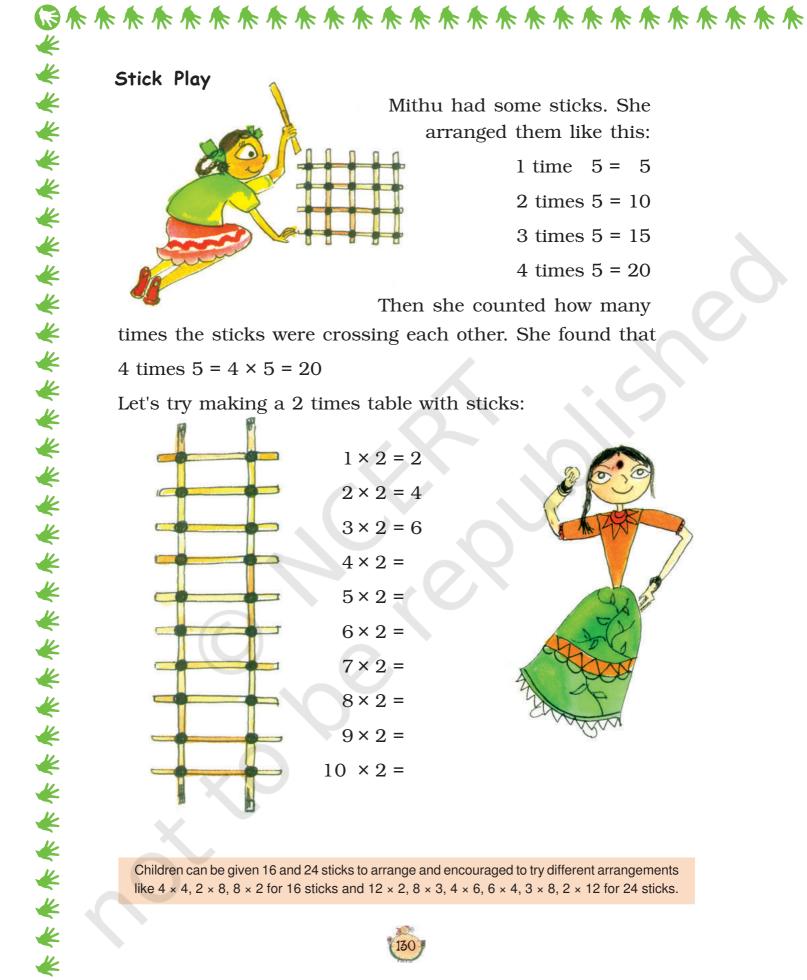
How Many Times 2?



1 time 2	is 2	or 1×2	= 2
2 times 2	is 4	or 2×2	= 4
3 times 2	is 6	or 3×2	= 6
4 times 2	is	or 4×2	=
5 times 2	is	or 5 × 2	= 30.25
6 times 2	is	or 6 × 2	
times 2	is	or × 2	
times	is	or 8×2	=
times	is	or 9 × 2	=
times	is	or 10 × 2	=









Mithu had some sticks. She arranged them like this:

1 time
$$5 = 5$$

$$2 \text{ times } 5 = 10$$

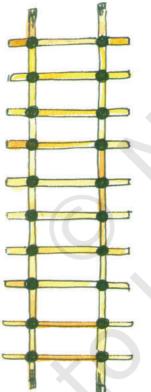
$$3 \text{ times } 5 = 15$$

$$4 \text{ times } 5 = 20$$

Then 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:



$$1 \times 2 = 2$$

$$2 \times 2 = 4$$

$$3 \times 2 = 6$$

$$4 \times 2 =$$

$$5 \times 2 =$$

$$6 \times 2 =$$

$$7 \times 2 =$$

$$8 \times 2 =$$

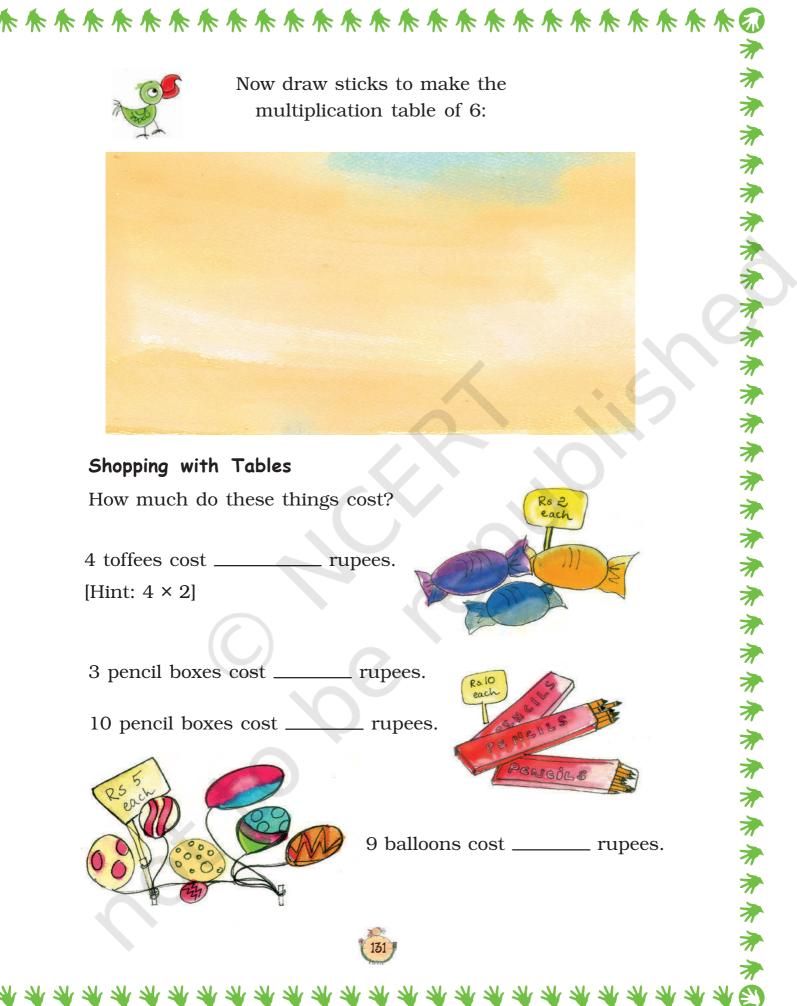
$$9 \times 2 =$$

$$10 \times 2 =$$



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:

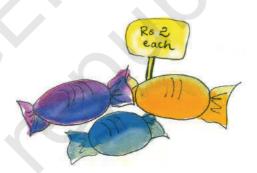


Shopping with Tables

How much do these things cost?

4 toffees cost rupees.

[Hint: 4×2]



3 pencil boxes cost rupees.

10 pencil boxes cost. rupees.





9 balloons cost _____ rupees.

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5 toys cost _____ rupees.





7 face masks cost _____ rupees.

Practice Time

A. Complete the following:

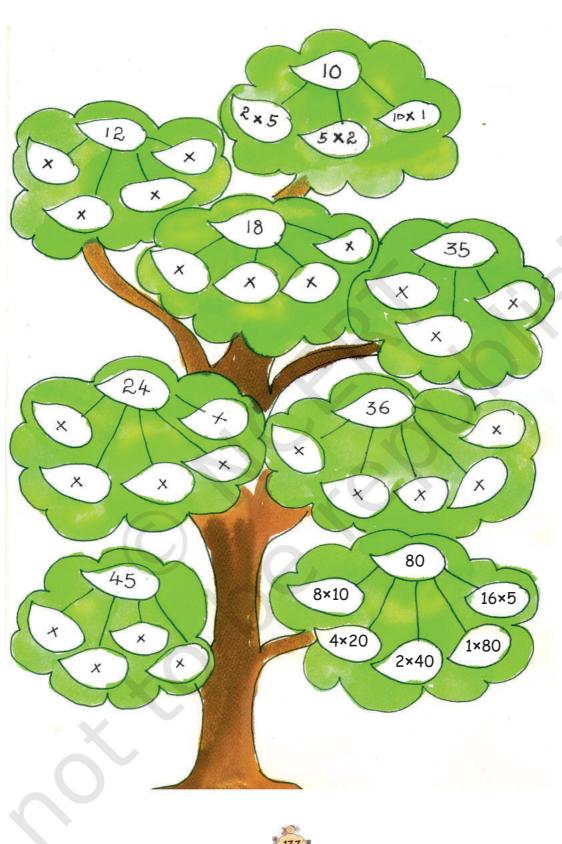
$$2 \times 7 =$$

B. Look at the patterns and complete them.



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C. Complete the multiplication tree



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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:



one time one is	1 × 1 = 1
offe thire offe is	- -

two times one is
$$2 \times 1 = 2$$

three times one is
$$3 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$



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

Total students present = 34

Each student gets 2 toffees.

So total number of toffees given is 34×2 .



34x2 is 34 times 2

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30 times 2 is 60.

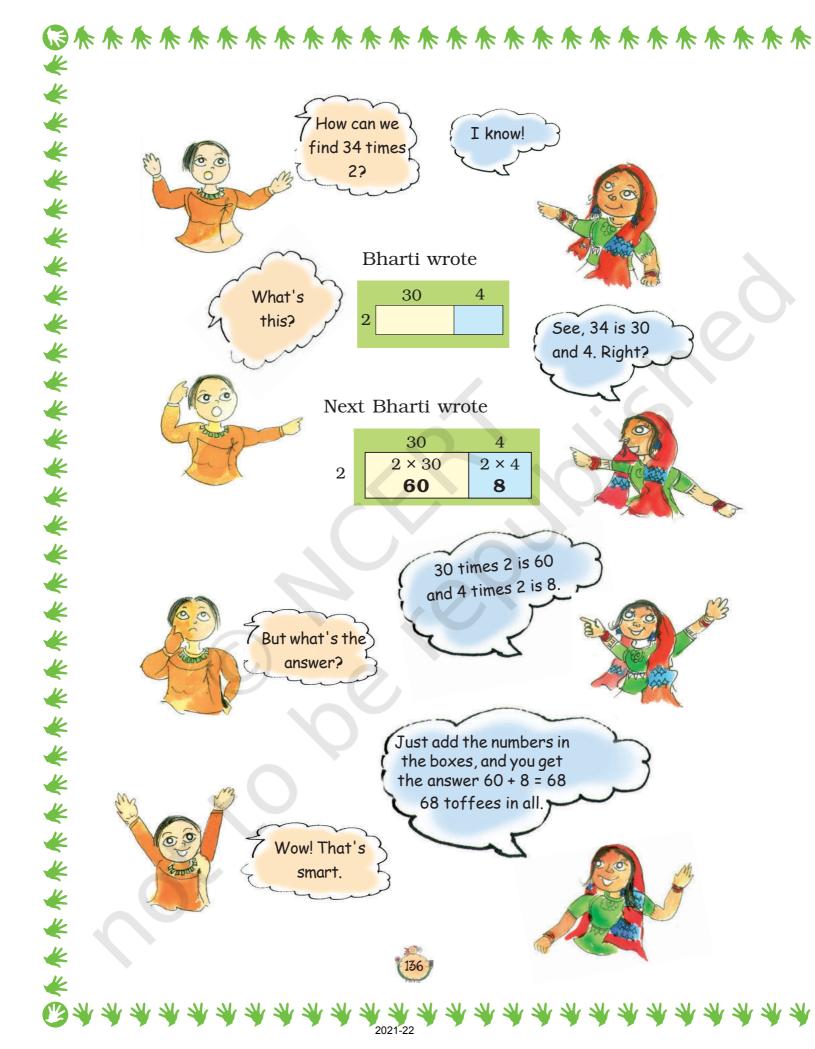
So the answer is more than 60.

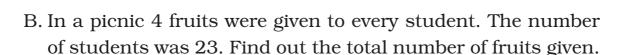
40 times 2 is 80.

So the answer is less than 80.

What is the answer?

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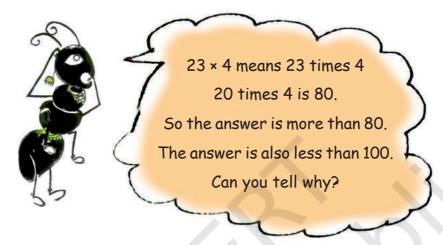




Number of students in the picnic = 23

Fruits given to each student = 4

Total number of fruits = 23×4



Let us try if we can do this by Bharti's method.

	20	3
	20×4	3 × 4
4	80	12

Adding 80 and 12 gives 80 + 12

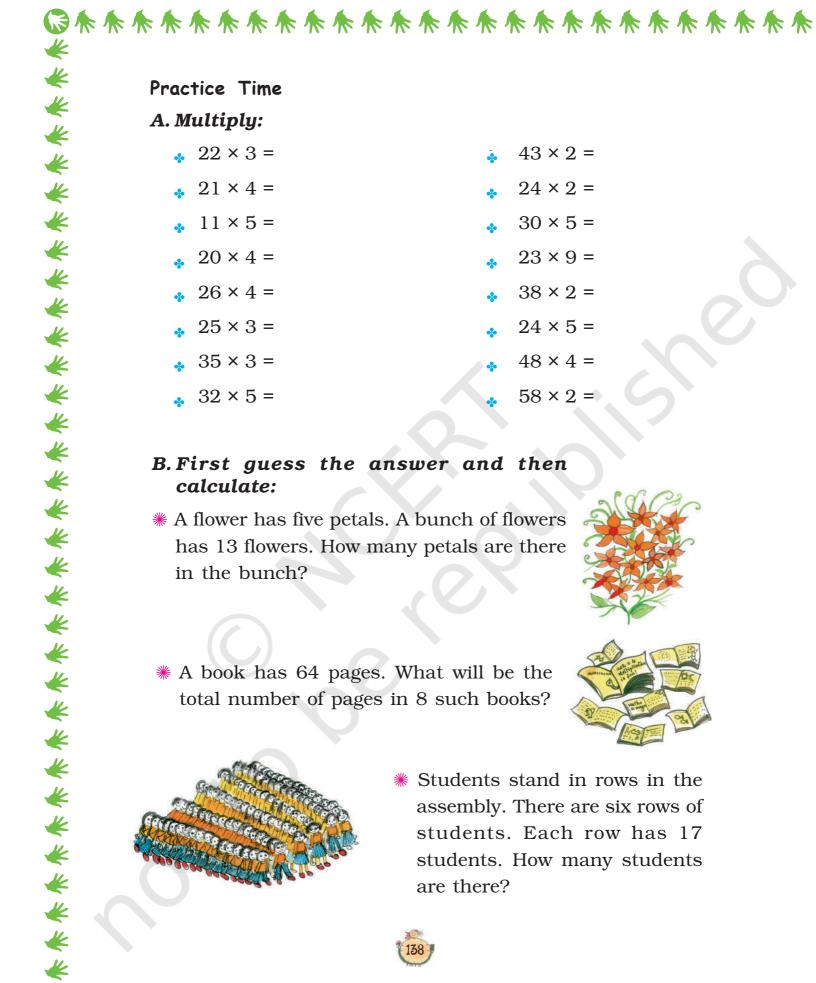
 $\frac{712}{92}$

So 23 times 4 is 92.



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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:

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?



- 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?

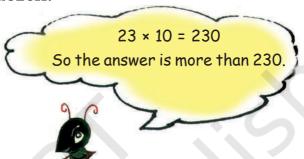


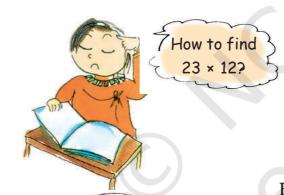
How many in 23 dozen?

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

1 dozen bananas means 12 bananas.

So 23 dozen bananas is 23×12 bananas.

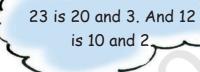






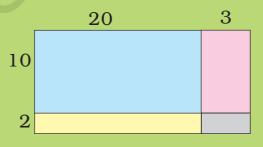


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Bharti wrote 20



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Next Bharti wrote

	20	3
10	20 × 10 200	3×10 30
2	20 × 2 40	3×2 6

And Bharti wrote 200

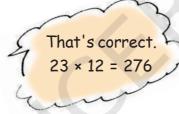
40

30

6 276

We will add the numbers in the boxes to get the answer.







So 23 dozen bananas is 276 bananas.

Now try doing 43 × 13

43 is 40 and 3

13 is 10 and 3

We write the numbers in the boxes as shown.





	40	3	
10	40×10 400	3×10 30	
3	40 × 3 120	3×3 9	



Add the numbers in the boxes:



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So
$$43 \times 13 = 559$$

Practice Time

First guess the answer and then check it by calculating:

Multiplication Patterns

A.
$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$1 + 8 = 9$$

$$9 \times 3 = 27$$

$$2 + 7 = 9$$

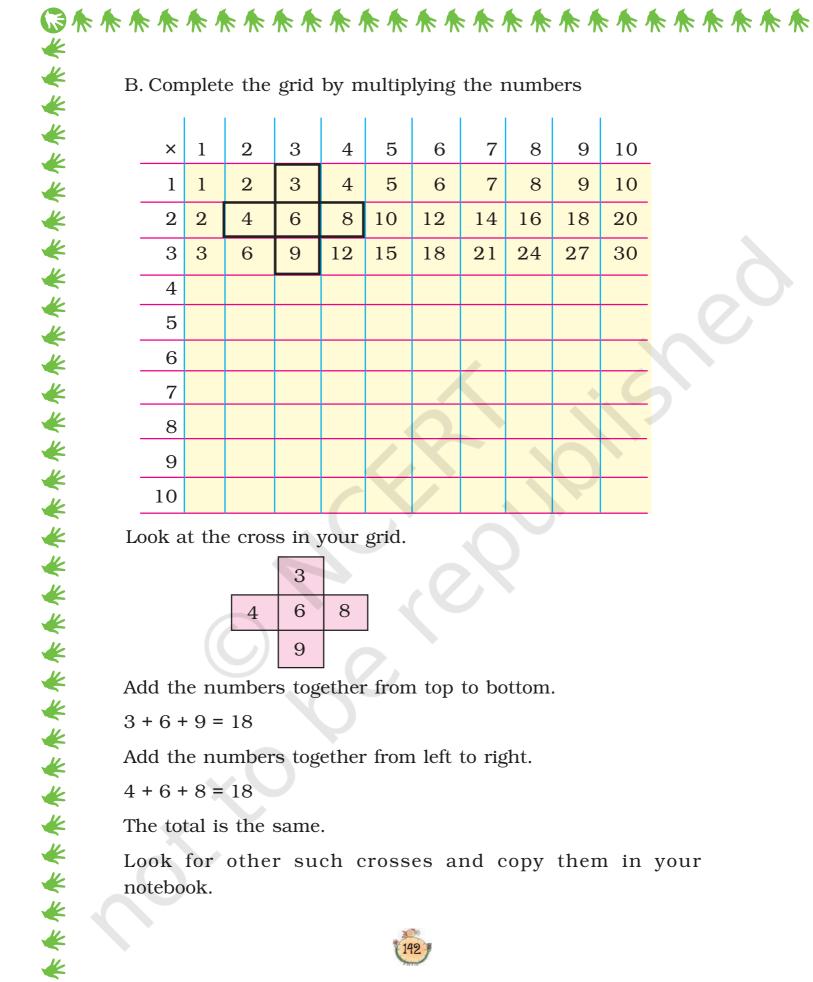
$$9 \times 4 = 36$$

$$3 + 6 = 9$$

$$9 \times 5 = 45$$

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										
5										
6										
7									•	C
8										
9										
10										

Look at the cross in your grid.

	3	
4	6	8
	9	

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.

*********** **矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛矛**

C. * Mark the numbers 1-10 in the same grid in one colour.

- * Mark the numbers 12-20 in another colour.
- * Similarly mark 21-30 in a third colour.

Do you see any colour pattern?

