

So how many legs altogether do 5 octopuses have?

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or 5 times _____ = ____ or 5×_____=

+

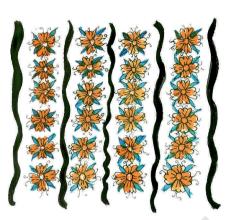
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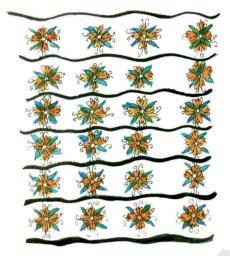




Find the Number without Counting How many flowers in a flower bed? It has 4 columns. Each column has 6 flowers. So altogether the flower bed has 4 times 6 flowers,

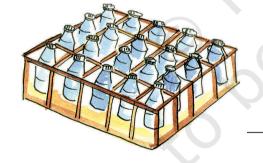
6 + 6 + 6 + 6 = 24 or $4 \times 6 = 24$





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 × 4 = 24



In the same way, how many bottles are these?

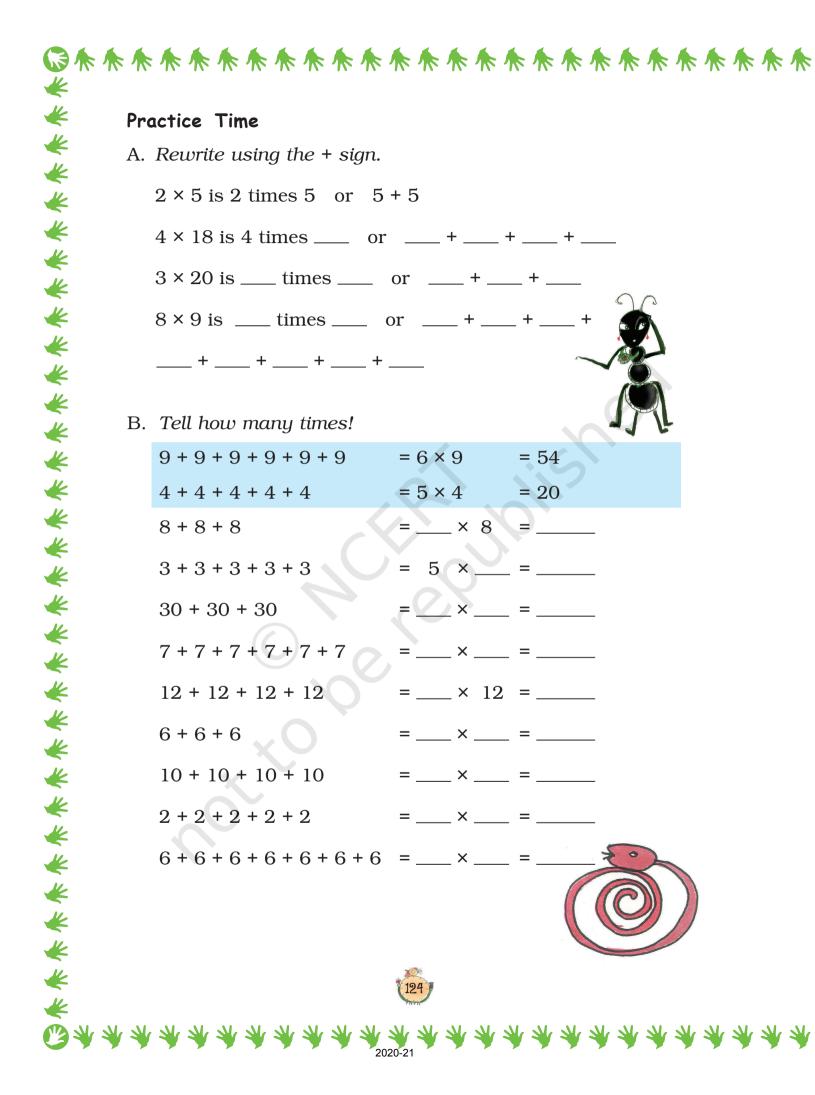
times ____ = ___ bottles

How many eggs?

_____ times _____ = ____ eggs









- C. Ramu bought 4 packets of biscuits. Each packet has 4 biscuits. How many biscuits did Ramu buy?
- D.There are 12 desks in a classroom. Each desk has 4 legs. What is the total number of legs of the desks?





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?

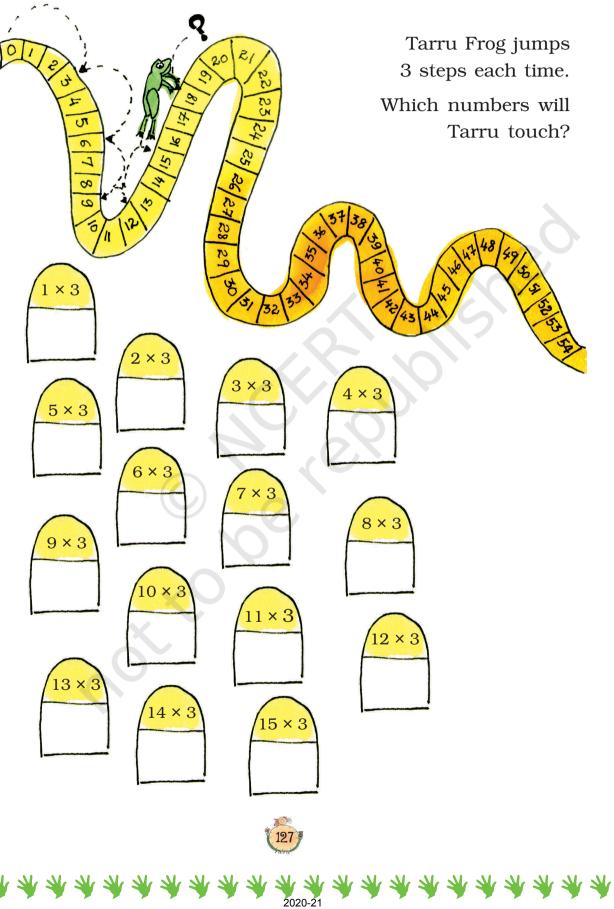


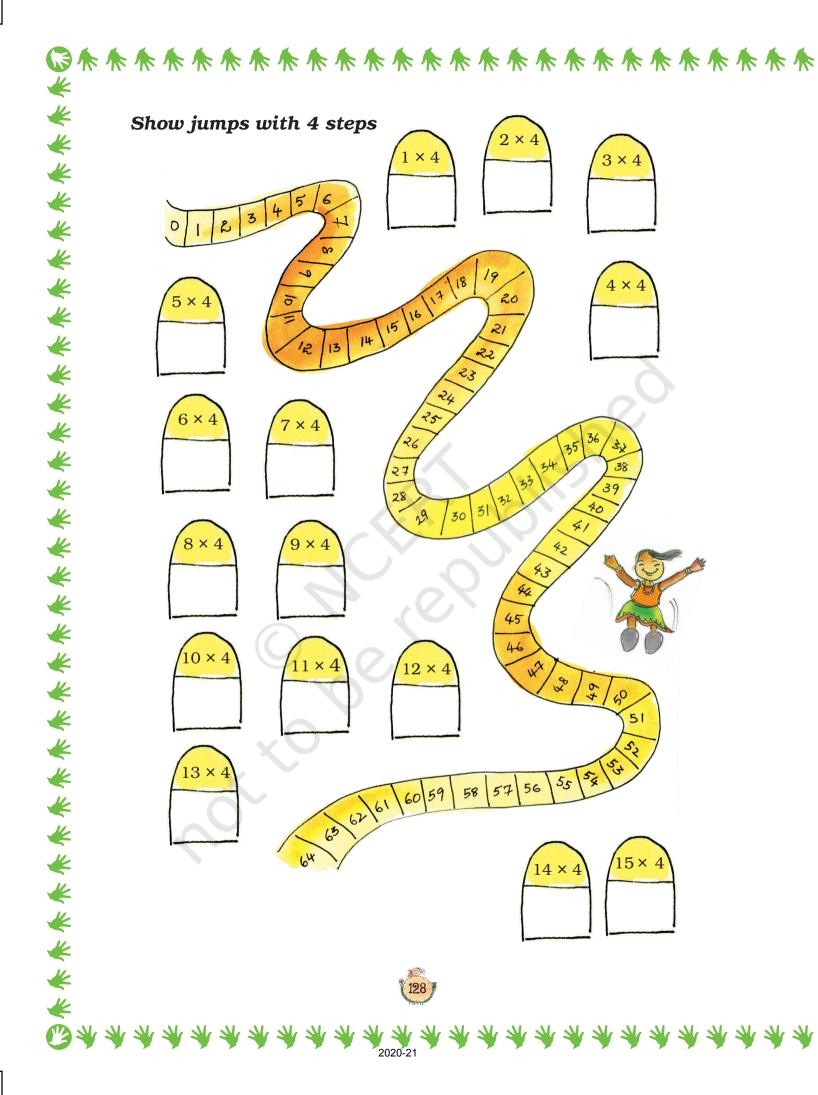
After children attempt word problems, there should be a discussion on how they arrived at their answers. This will help children develop a conceptual understanding of multiplication.



\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		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	0 is	or 5 × 2	=
6 times 2	is	or 6 × 2	=
times 2	2 is	or × 2	=
times	is	or 8 × 2	8 <u>2</u>
	is	or 9×2	=
times			=

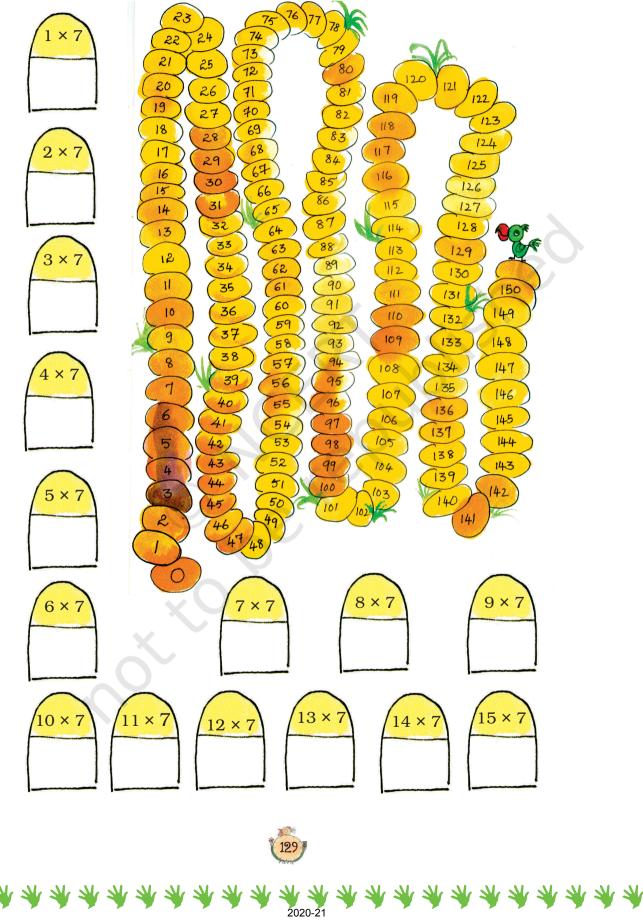
Jump with Me







Try jumps with seven steps



* * * オオオオオオオオオオオオオ * オオオオオ オオオオオオオ

*

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©********************* Stick Play 4 times $5 = 4 \times 5 = 20$ 10

Mithu had some sticks. She arranged them like this: 1 time 5 = 5 2 times 5 = 10

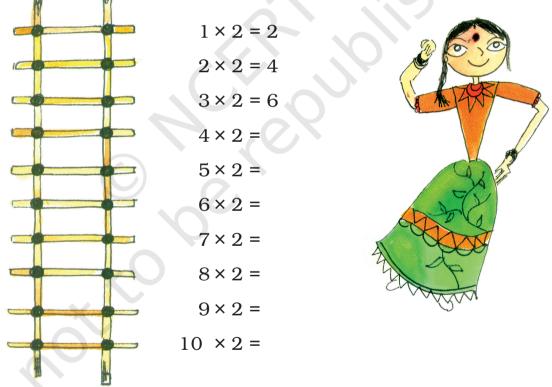
3 times 5 = 15

4 times 5 = 20

Then she counted how many

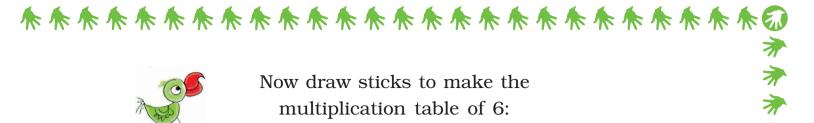
times the sticks were crossing each other. She found that

Let's try making a 2 times table with sticks:



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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Shopping with Tables

How much do these things cost?

_ rupees. 4 toffees cost _

[Hint: 4×2]

25

3 pencil boxes cost. _ rupees.

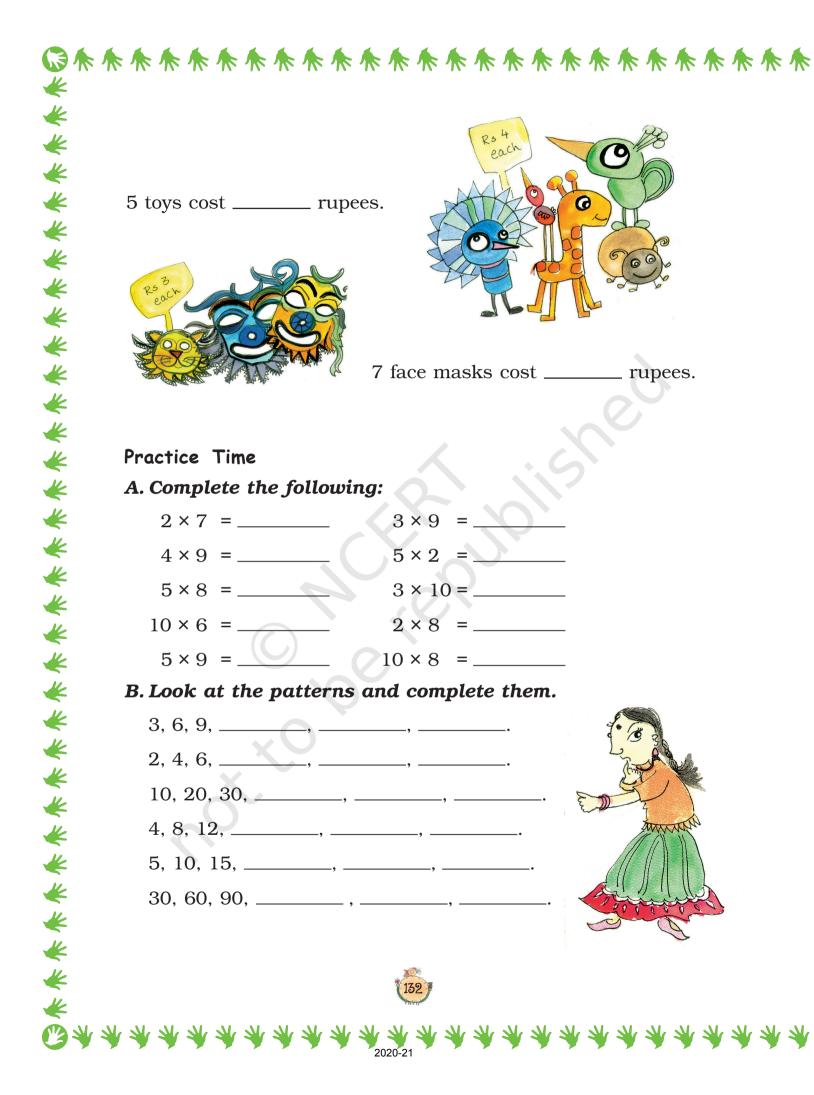
10 pencil boxes cost _____ rupees.

Or



Rs 2 each

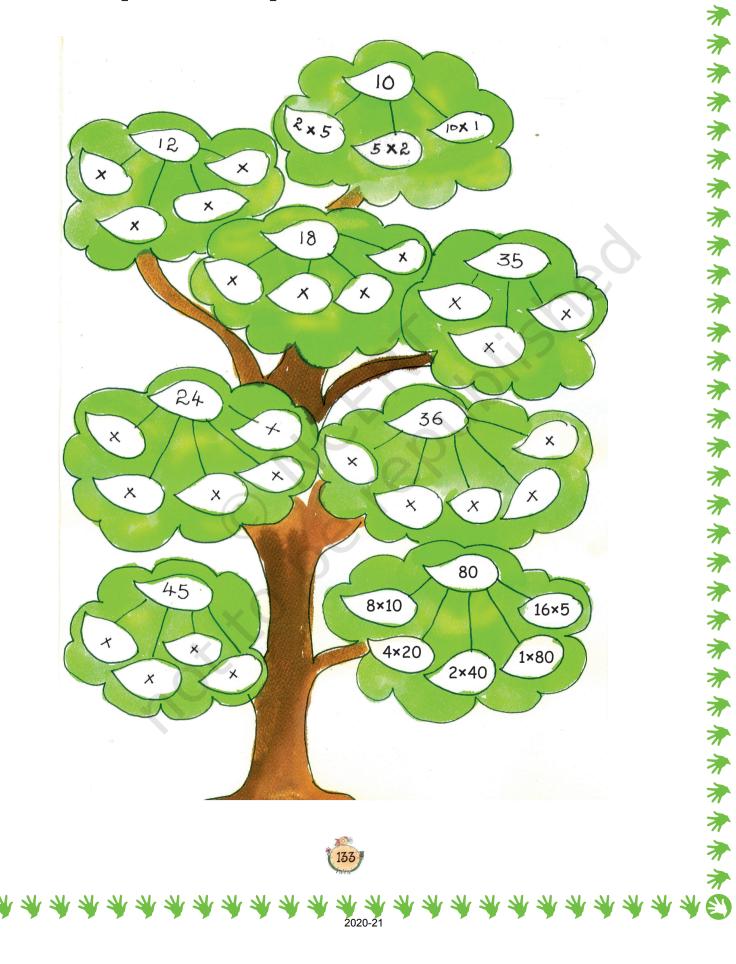
9 balloons cost _____ rupees.





*

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?







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?

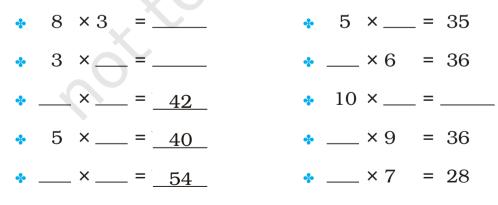
* A box contains 6 apples. How many apples in all will seven boxes have?





How many corners would 4 triangles have?

E. Some multiplication facts:





Multiplication	Table of	1				G	
one time of	ne is	1 × 1 =	1			R Mm @	
two times o	one is	2 × 1=	2			W R	
three times	s one is	3 ×	= _		G.	TY	
four times	one is	×	= _				
times	s one is	×	= _				
times	s one is	×	=				
times	s one is	×	= _				
times	s one is	×	= -	-			

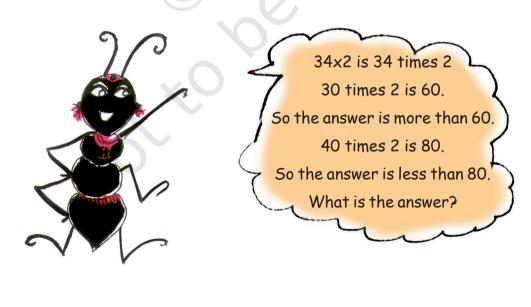
Multiplying Big Numbers

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

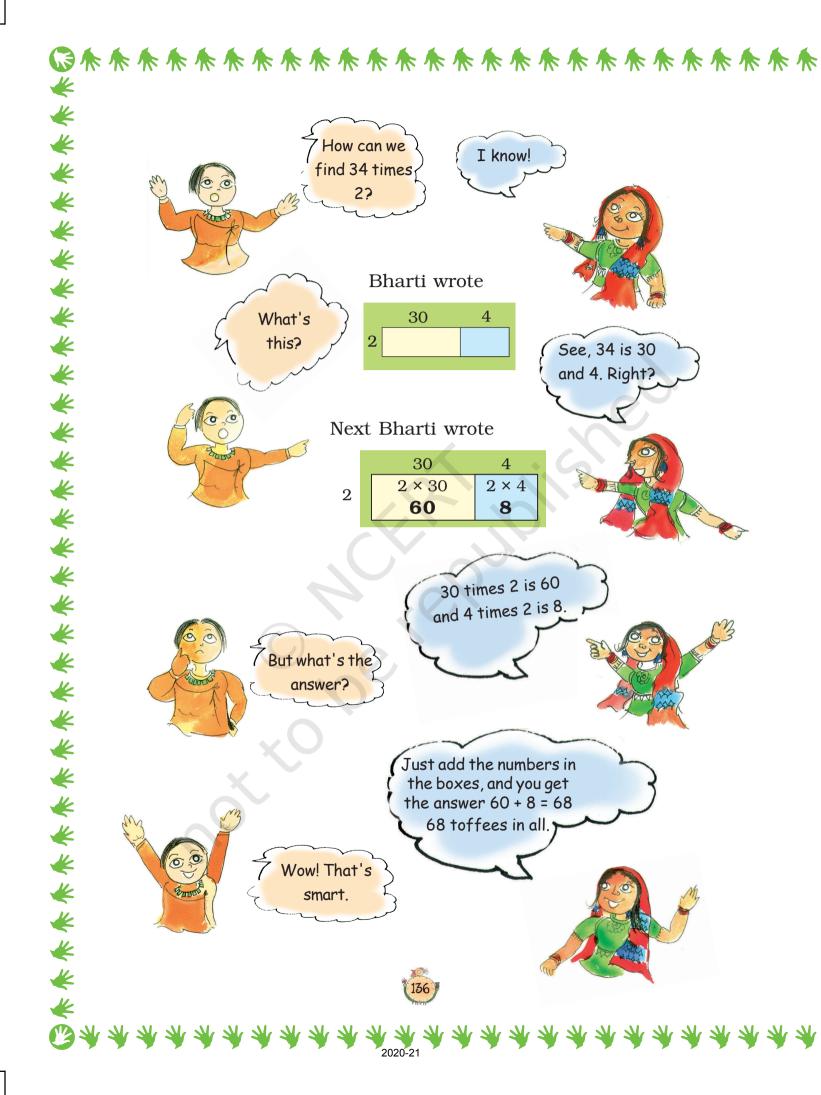
Total students present = 34

Each student gets 2 toffees.

So total number of toffees given is 34×2 .

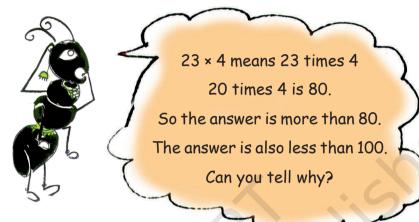


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B. In a picnic 4 fruits were given to every student. The number of students was 23. Find out the total number of fruits given.
Number of students in the picnic = 23
Fruits given to each student = 4
Total number of fruits = 23 × 4



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

	20	3
4	20×4 80	3 × 4 12

Adding 80 and 12 gives 80

+ 12

92

So 23 times 4 is 92.



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.



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Practice Time A. Multiply:

- ◆ 22 × 3 =
 ◆ 43 × 2 =
 ◆ 21 × 4 =
 ◆ 24 × 2 =
- ↓ 11 × 5 =
 ↓ 30 × 5 =
- ▲ 20 × 4 =
 ▲ 23 × 9 =

- → 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?

 $58 \times 2 =$



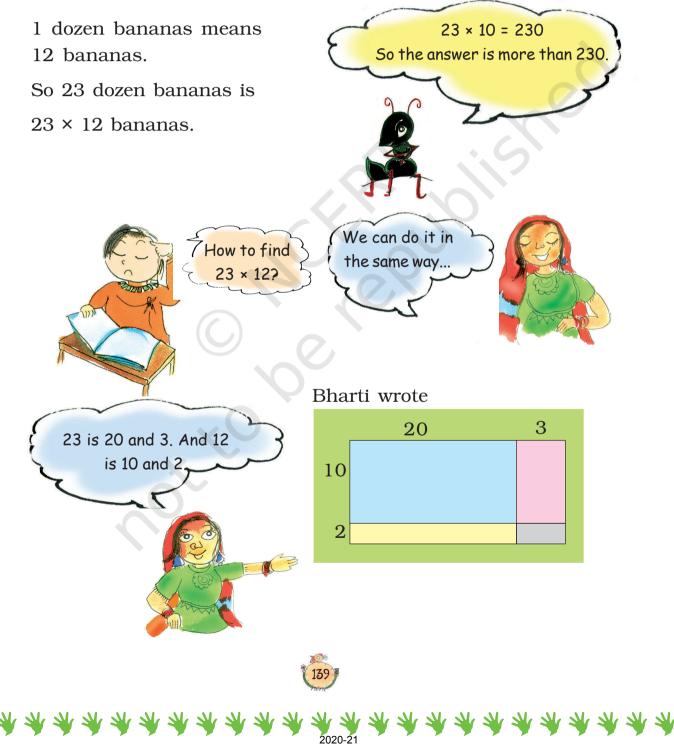
* A design has 3 flowers in it. A piece of cloth has 17 such designs. How many flowers will be on the cloth?

*

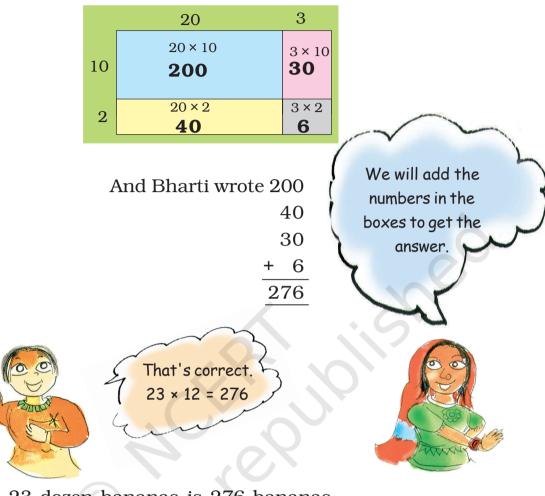


How many in 23 dozen?

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



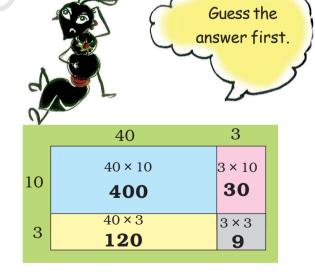
Next Bharti wrote



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.



140

Add the numbers in the boxes:

400	
120	-ah
30	
+ 9	
559	
= 559	ull w

So 43 × 13 = 559

Practice Time

First guess the answer and then check it by calculating :

42 × 23 =	73 × 11 =
51 × 13 =	54 × 12 =
25 × 36 =	12 × 14 =

Multiplication Patterns

A.	9	×	1	=	9						
	9	×	2	=	18		1	+	8	Ē	9
	9	×	3	=	27		2	+	7	=	9
	9	×	4	=	36		3	+	6	=	9
	9	×	5	=	45		4	+	5	=	9
	9	×		_ =		-xO		+		=	
	9	×		_ =	\mathbf{X}			+		=	
	9	×	8	=		-		+		=	

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.

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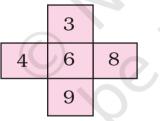
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B. Complete the grid by multiplying the numbers

×	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											
8						$\boldsymbol{\mathcal{A}}$			5		
9						2					
10					\mathbf{N}			2			

Look at the cross in your grid.



Add the numbers together from top to bottom.

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.



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?

