



How Many Times?



0325CH09



Leggy Animals

There are 5 goats.

How many legs altogether?

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

or 5 times 4 is 20

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

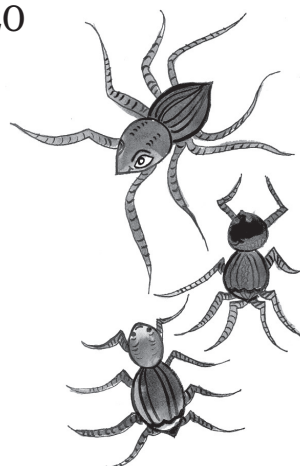
How many spiders? _____

One spider has _____ legs.

In all, spider legs are 3 times _____

$$\text{or } \boxed{} + \boxed{} + \boxed{} = \underline{\hspace{2cm}}$$

$$\text{or } 3 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



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?

$$\boxed{} + \boxed{} + \boxed{} + \boxed{} + \boxed{} = \underline{\hspace{2cm}}$$

$$\text{or } 5 \text{ times } \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\text{or } 5 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



Give me your hand, hand, hand,!



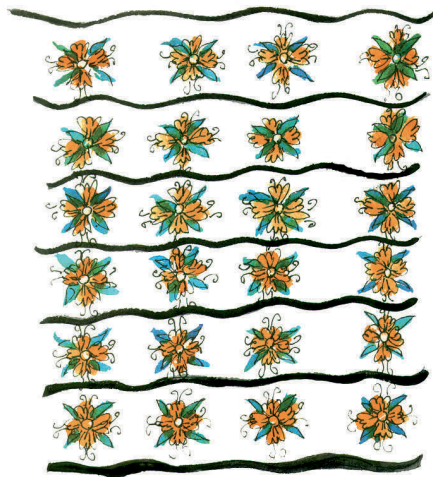
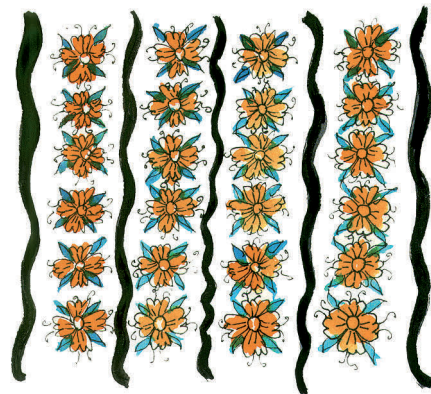
Find the Number without Counting

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,

$$6 + 6 + 6 + 6 = 24 \text{ or}$$

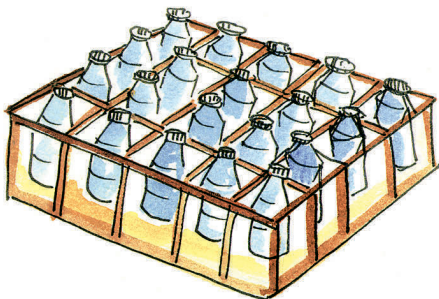
$$4 \times 6 = 24$$



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,

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

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

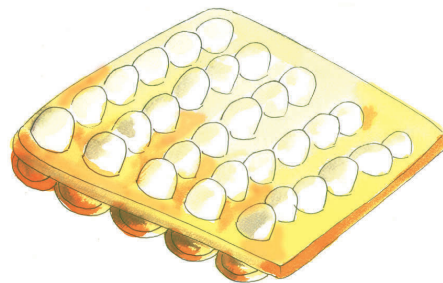


In the same way, how many bottles are these?

_____ times _____ = _____ bottles

How many eggs?

_____ times _____ = _____ eggs



Practice Time

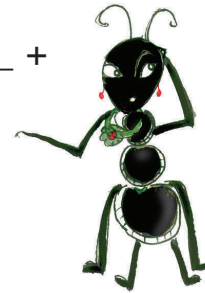
A. Rewrite using the + sign.

$$2 \times 5 \text{ is 2 times 5 or } 5 + 5$$

$$4 \times 18 \text{ is 4 times } \underline{\hspace{1cm}} \text{ or } \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$$

$$3 \times 20 \text{ is } \underline{\hspace{1cm}} \text{ times } \underline{\hspace{1cm}} \text{ or } \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$$

$$8 \times 9 \text{ is } \underline{\hspace{1cm}} \text{ times } \underline{\hspace{1cm}} \text{ or } \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$$



B. Tell how many times!

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

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

$$8 + 8 + 8 = \underline{\hspace{1cm}} \times 8 = \underline{\hspace{1cm}}$$

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

$$30 + 30 + 30 = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

$$7 + 7 + 7 + 7 + 7 + 7 = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

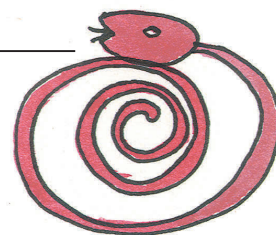
$$12 + 12 + 12 + 12 = \underline{\hspace{1cm}} \times 12 = \underline{\hspace{1cm}}$$

$$6 + 6 + 6 = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

$$10 + 10 + 10 + 10 = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

$$2 + 2 + 2 + 2 + 2 = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

$$6 + 6 + 6 + 6 + 6 + 6 + 6 = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$



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

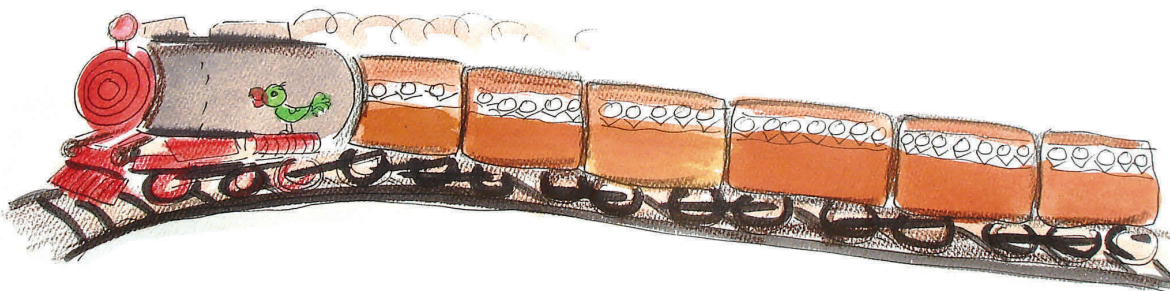


D. There are 12 desks in a classroom.
Each desk has 4 legs. What is the total
number of legs of the desks?



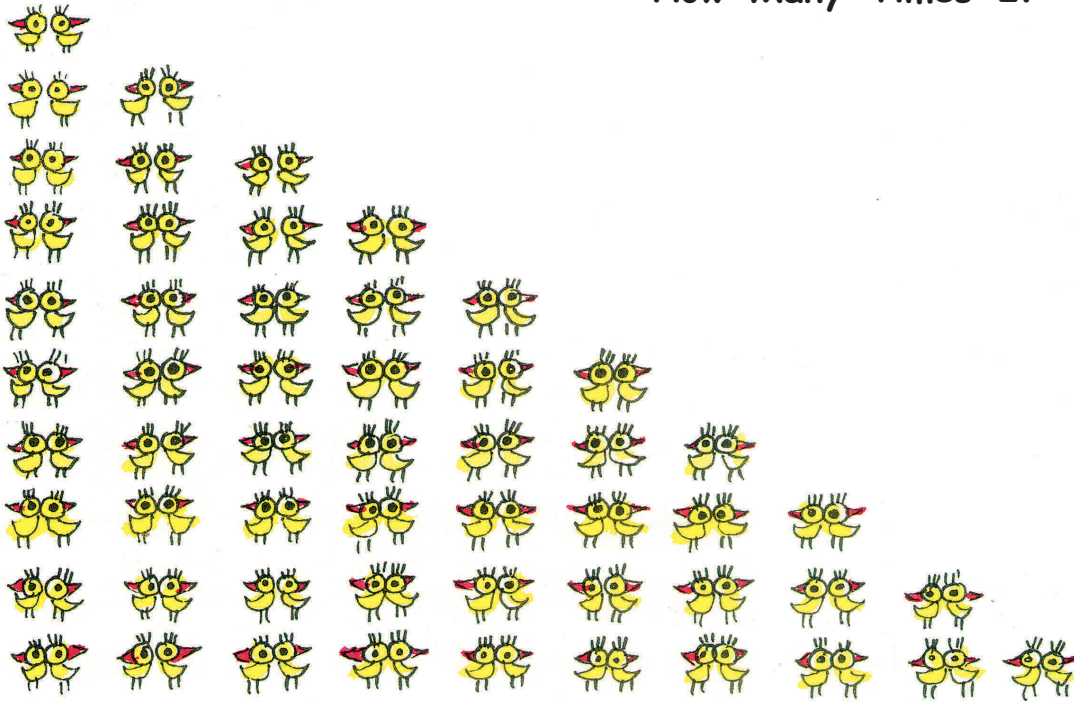
E. Sabiha brought home 3 bunches of
flowers. Each bunch has 4 flowers.
How many flowers were there?

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?

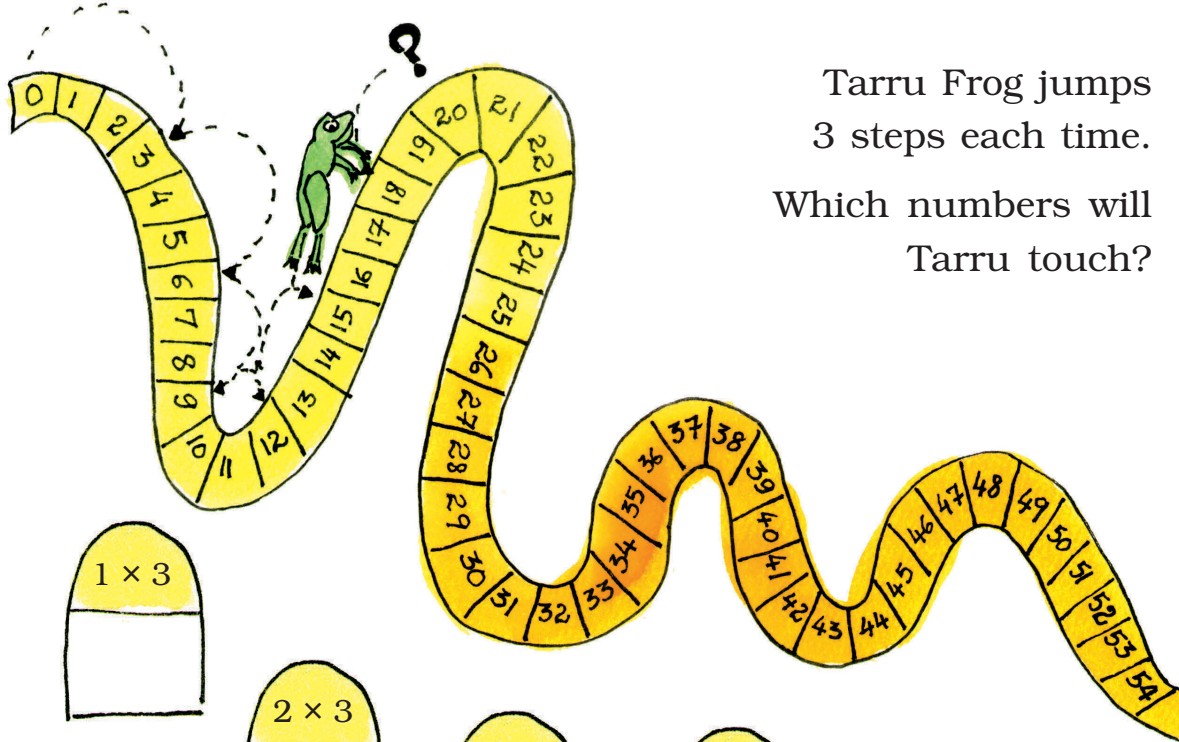


1 time 2	is 2	or 1×2	= 2
2 times 2	is 4	or 2×2	= 4
3 times 2	is 6	or 3×2	= 6
4 times 2	is ____	or 4×2	= ____
5 times 2	is ____	or 5×2	= ____
6 times 2	is ____	or 6×2	= ____
____ times 2	is ____	or ____ $\times 2$	= ____
____ times ____	is ____	or 8×2	= ____
____ times ____	is ____	or 9×2	= ____
____ times ____	is ____	or 10×2	= ____

Jump with Me

Tarru Frog jumps
3 steps each time.

Which numbers will
Tarru touch?



$$1 \times 3$$

$$2 \times 3$$

$$3 \times 3$$

$$4 \times 3$$

$$5 \times 3$$

$$6 \times 3$$

$$7 \times 3$$

$$8 \times 3$$

$$9 \times 3$$

$$10 \times 3$$

$$11 \times 3$$

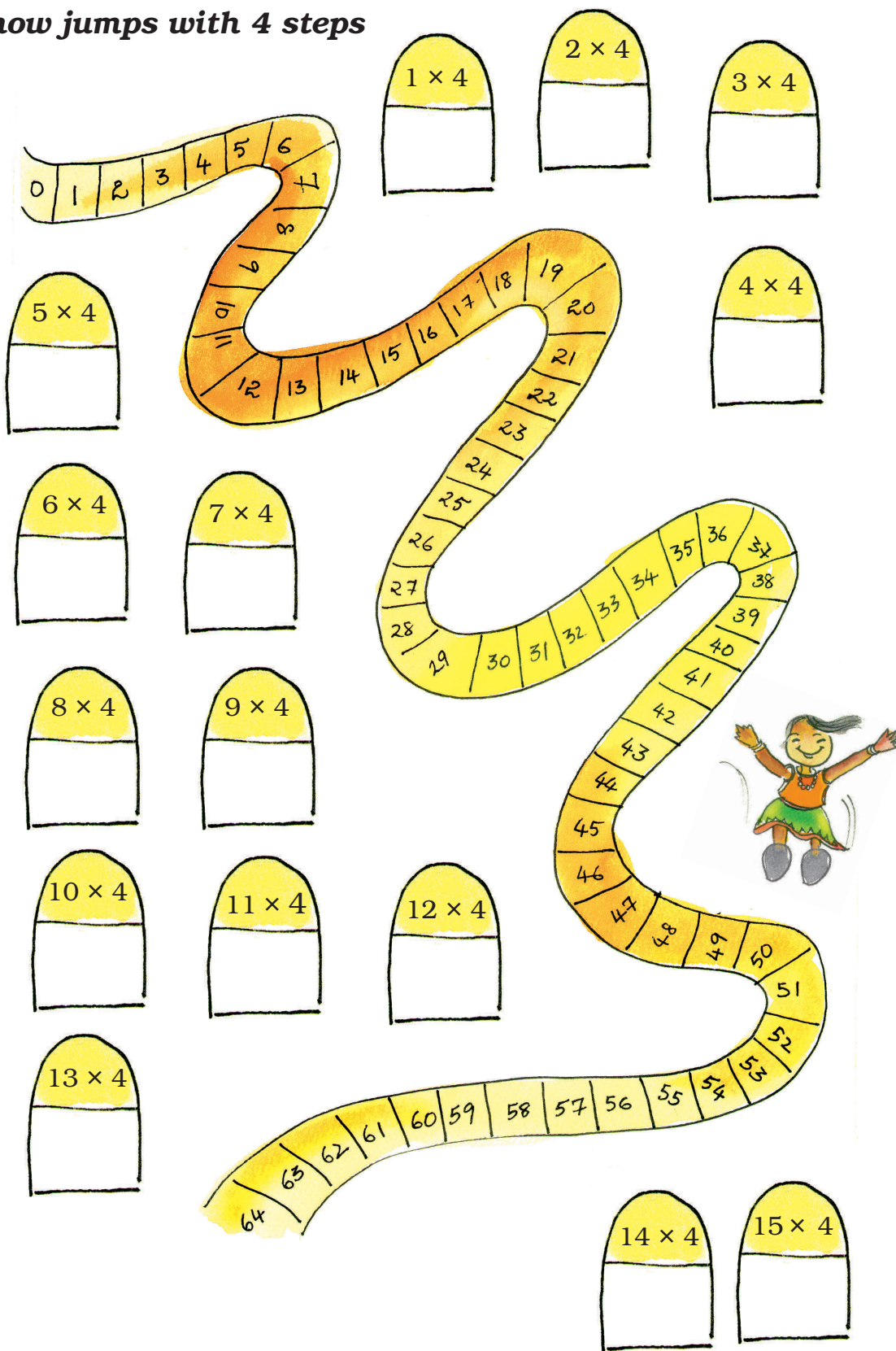
$$12 \times 3$$

$$13 \times 3$$

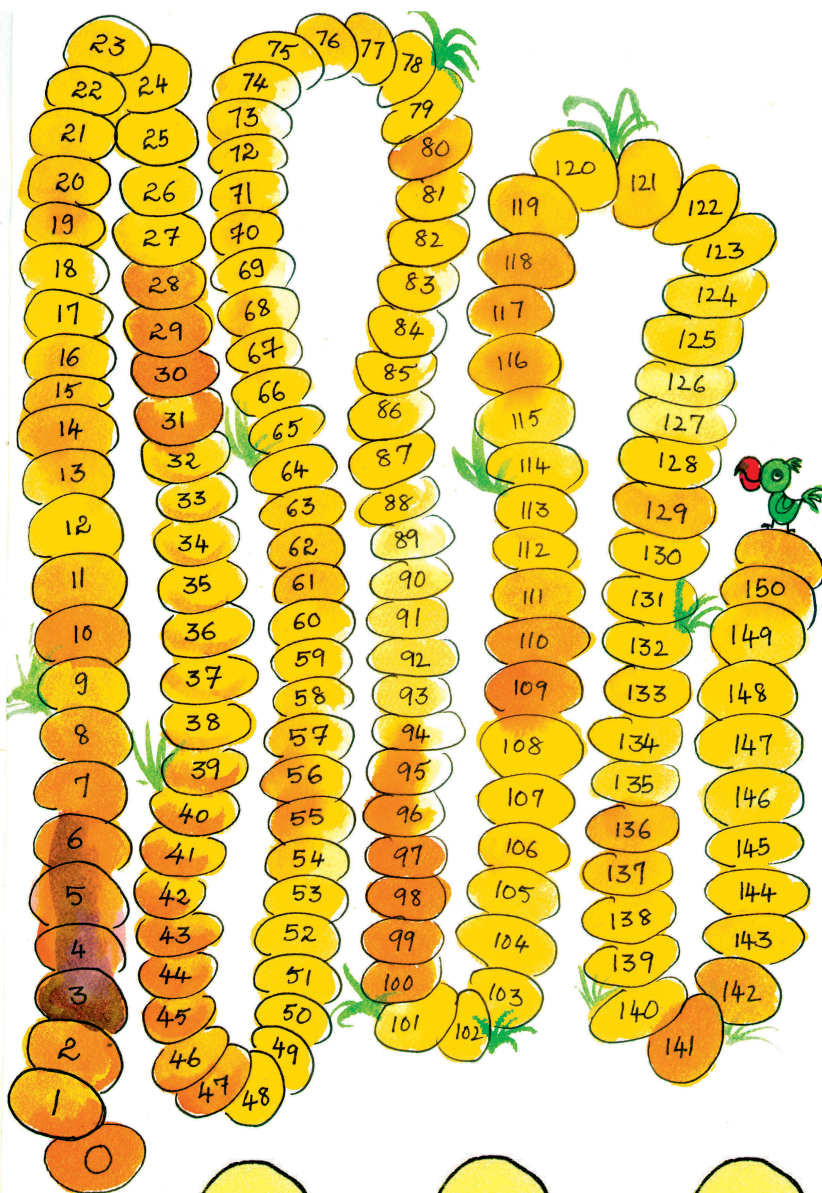
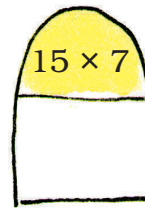
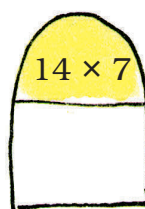
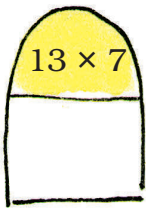
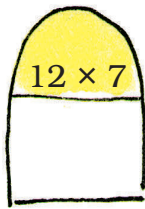
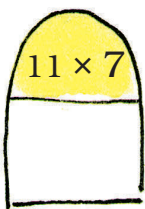
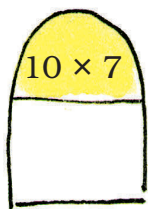
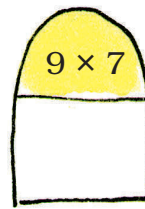
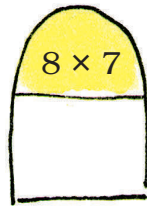
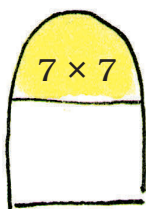
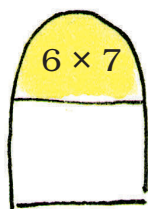
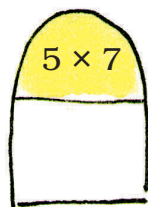
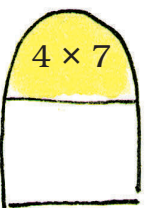
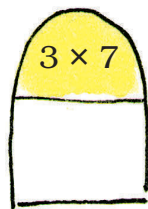
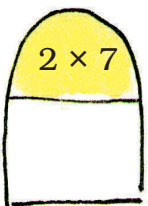
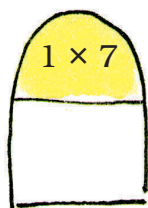
$$14 \times 3$$

$$15 \times 3$$

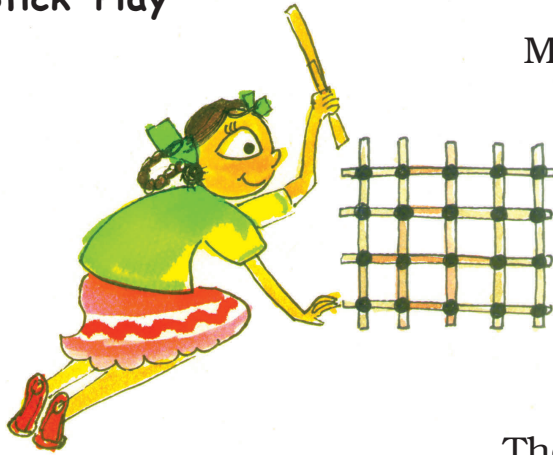
Show jumps with 4 steps



Try jumps with seven steps



Stick Play



Mithu had some sticks. She arranged them like this:

$$1 \text{ time } 5 = 5$$

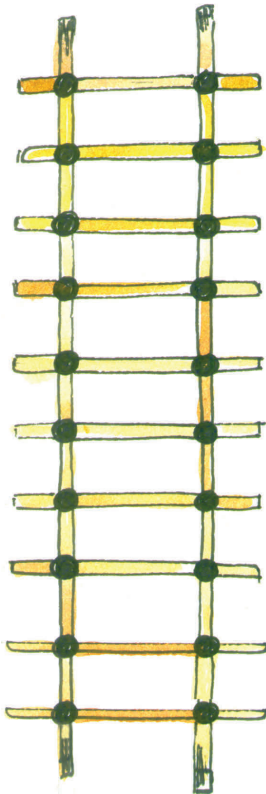
$$2 \text{ times } 5 = 10$$

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

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

Then she counted how many times the sticks were crossing each other. She found that $4 \text{ times } 5 = 4 \times 5 = 20$

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



$$1 \times 2 = 2$$

$$2 \times 2 = 4$$

$$3 \times 2 = 6$$

$$4 \times 2 =$$

$$5 \times 2 =$$

$$6 \times 2 =$$

$$7 \times 2 =$$

$$8 \times 2 =$$

$$9 \times 2 =$$

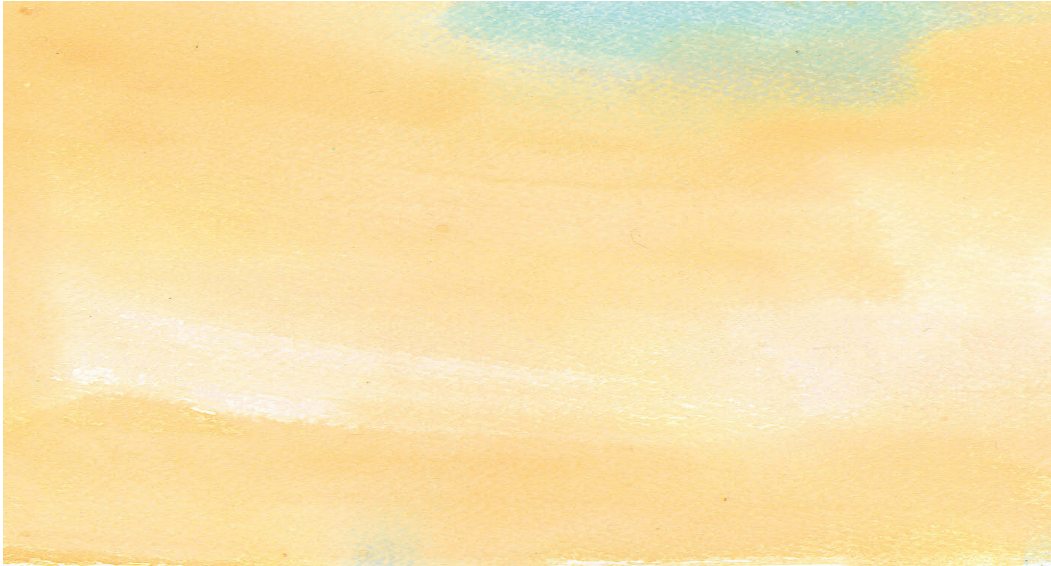
$$10 \times 2 =$$



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:

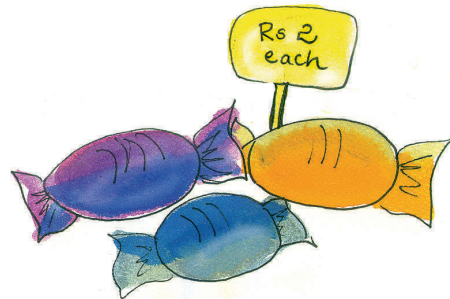


Shopping with Tables

How much do these things cost?

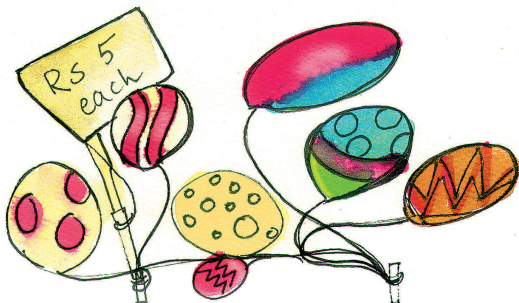
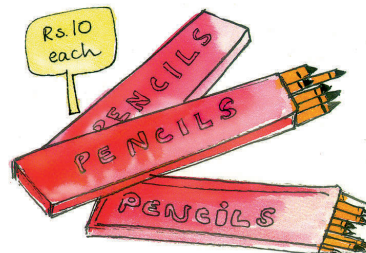
4 toffees cost _____ rupees.

[Hint: 4×2]



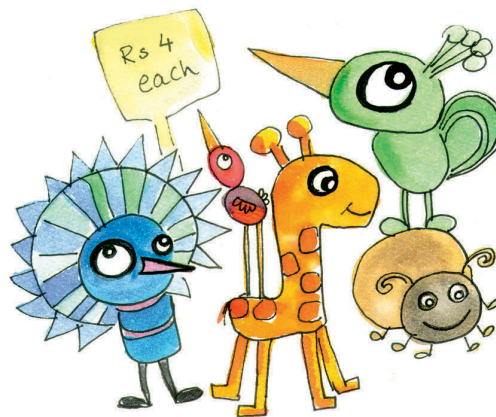
3 pencil boxes cost _____ rupees.

10 pencil boxes cost _____ rupees.



9 balloons cost _____ rupees.

5 toys cost _____ rupees.



7 face masks cost _____ rupees.

Practice Time

A. Complete the following:

$2 \times 7 = \underline{\hspace{2cm}}$

$3 \times 9 = \underline{\hspace{2cm}}$

$4 \times 9 = \underline{\hspace{2cm}}$

$5 \times 2 = \underline{\hspace{2cm}}$

$5 \times 8 = \underline{\hspace{2cm}}$

$3 \times 10 = \underline{\hspace{2cm}}$

$10 \times 6 = \underline{\hspace{2cm}}$

$2 \times 8 = \underline{\hspace{2cm}}$

$5 \times 9 = \underline{\hspace{2cm}}$

$10 \times 8 = \underline{\hspace{2cm}}$

B. Look at the patterns and complete them.

3, 6, 9, _____, _____, _____.

2, 4, 6, _____, _____, _____.

10, 20, 30, _____, _____, _____.

4, 8, 12, _____, _____, _____.

5, 10, 15, _____, _____, _____.

30, 60, 90, _____, _____, _____.



C. Complete the multiplication tree

10

2×5 5×2 10×1

12

2×4 4×2 1×4

18

2×9 3×6 6×3 9×2

35

5×7 7×5 1×35 35×1

24

2×12 3×8 4×6 6×4 8×3 12×2

36

2×18 3×12 4×9 6×6 9×4 12×3 18×2

45

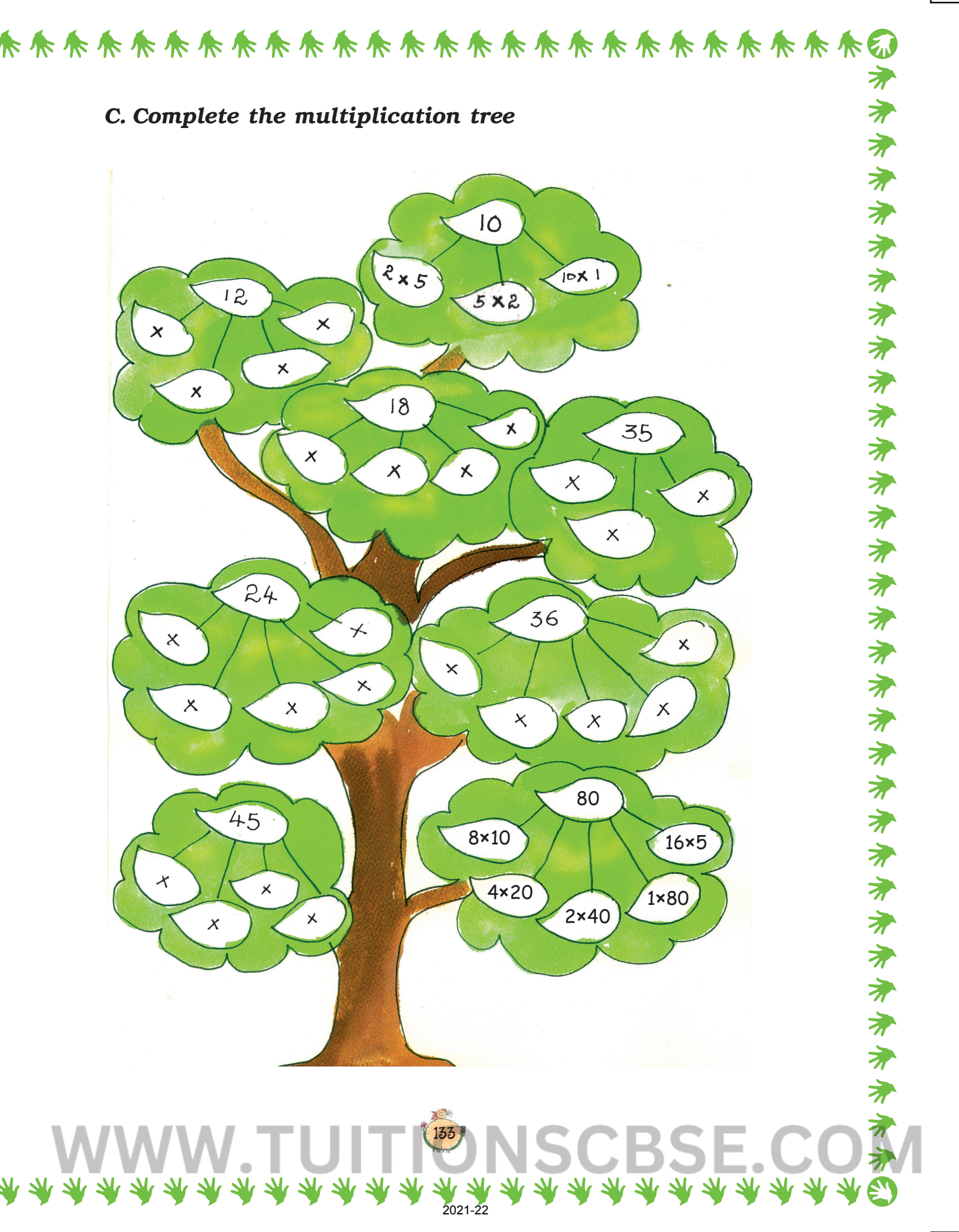
3×15 5×9 9×5 15×3

80

8×10 16×5 4×20 2×40 1×80 80×1

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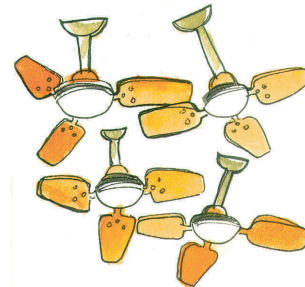
D. How many in all?

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

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

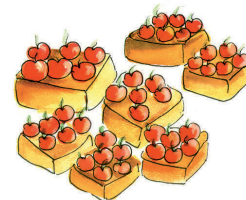


- ✿ A shirt has 5 buttons.
How many buttons would 3 shirts have?



- ✿ 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:

$$\clubsuit \quad 8 \times 3 = \underline{\quad}$$

$$\clubsuit \quad 5 \times \underline{\quad} = 35$$

$$\clubsuit \quad 3 \times \underline{\quad} = \underline{\quad}$$

$$\clubsuit \quad \underline{\quad} \times 6 = 36$$

$$\clubsuit \quad \underline{\quad} \times \underline{\quad} = \underline{42}$$

$$\clubsuit \quad 10 \times \underline{\quad} = \underline{\quad}$$

$$\clubsuit \quad 5 \times \underline{\quad} = \underline{40}$$

$$\clubsuit \quad \underline{\quad} \times 9 = 36$$

$$\clubsuit \quad \underline{\quad} \times \underline{\quad} = \underline{54}$$

$$\clubsuit \quad \underline{\quad} \times 7 = 28$$

Multiplication Table of 1

one time one is	$1 \times 1 =$	1
two times one is	$2 \times 1 =$	2
three times one is	$3 \times \underline{\quad}$	$= \underline{\quad}$
four times one is	$\underline{\quad} \times \underline{\quad}$	$= \underline{\quad}$
$\underline{\quad}$ times one is	$\underline{\quad} \times \underline{\quad}$	$= \underline{\quad}$
$\underline{\quad}$ times one is	$\underline{\quad} \times \underline{\quad}$	$= \underline{\quad}$
$\underline{\quad}$ times one is	$\underline{\quad} \times \underline{\quad}$	$= \underline{\quad}$
$\underline{\quad}$ times one is	$\underline{\quad} \times \underline{\quad}$	$= \underline{\quad}$



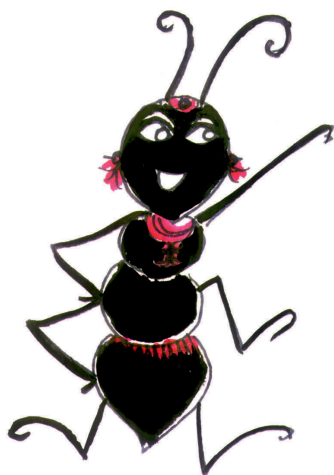
Multiplying Big Numbers

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 .



34×2 is 34 times 2

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?





How can we
find 34 times
2?

I know!



What's
this?

Bharti wrote

	30	4
2		

See, 34 is 30
and 4. Right?



Next Bharti wrote

	30	4
2	2×30 60	2×4 8



30 times 2 is 60
and 4 times 2 is 8.



But what's the
answer?



Just add the numbers in
the boxes, and you get
the answer $60 + 8 = 68$
68 toffees in all.



Wow! That's
smart.



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



23×4 means 23 times 4

20 times 4 is 80.

So the answer is more than 80.

The answer is also less than 100.

Can you tell why?

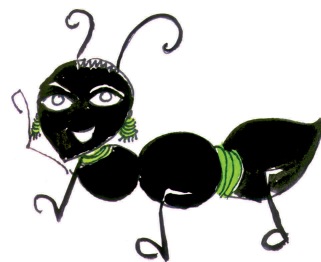
Let us try if we can do this by Bharti's method.

	20	3
4	20×4 80	3×4 12

Adding 80 and 12 gives 80

$$\begin{array}{r} 80 \\ + 12 \\ \hline 92 \end{array}$$

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.

Practice Time

A. Multiply:

$$\clubsuit 22 \times 3 =$$

$$\clubsuit 21 \times 4 =$$

$$\clubsuit 11 \times 5 =$$

$$\clubsuit 20 \times 4 =$$

$$\clubsuit 26 \times 4 =$$

$$\clubsuit 25 \times 3 =$$

$$\clubsuit 35 \times 3 =$$

$$\clubsuit 32 \times 5 =$$

$$\clubsuit 43 \times 2 =$$

$$\clubsuit 24 \times 2 =$$

$$\clubsuit 30 \times 5 =$$

$$\clubsuit 23 \times 9 =$$

$$\clubsuit 38 \times 2 =$$

$$\clubsuit 24 \times 5 =$$

$$\clubsuit 48 \times 4 =$$

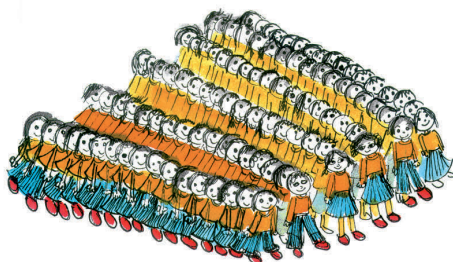
$$\clubsuit 58 \times 2 =$$

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?

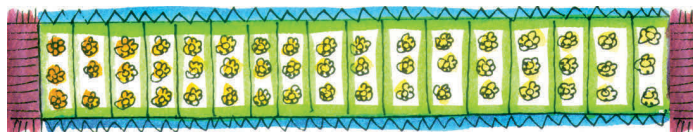


- ✿ A book has 64 pages. What will be the total number of pages in 8 such books?



- ✿ 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.

$$23 \times 10 = 230$$

So the answer is more than 230.



How to find
 23×12 ?

We can do it in
the same way...



23 is 20 and 3. And 12
is 10 and 2.

Bharti wrote



Next Bharti wrote

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

And Bharti wrote

$$\begin{array}{r} 200 \\ 40 \\ 30 \\ + 6 \\ \hline 276 \end{array}$$

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



That's correct.
 $23 \times 12 = 276$



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.



Guess the answer first.

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

Add the numbers in the boxes:

$$\begin{array}{r} 400 \\ 120 \\ 30 \\ + 9 \\ \hline 559 \end{array}$$



So $43 \times 13 = 559$

Practice Time

First guess the answer and then check it by calculating :

$42 \times 23 = \underline{\hspace{2cm}}$

$73 \times 11 = \underline{\hspace{2cm}}$

$51 \times 13 = \underline{\hspace{2cm}}$

$54 \times 12 = \underline{\hspace{2cm}}$

$25 \times 36 = \underline{\hspace{2cm}}$

$12 \times 14 = \underline{\hspace{2cm}}$

Multiplication Patterns

A. $9 \times 1 = 9$

$9 \times 2 = 18$

$9 \times 3 = 27$

$9 \times 4 = 36$

$9 \times 5 = 45$

$9 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

$9 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

$9 \times 8 = \underline{\hspace{1cm}}$

$1 + 8 = 9$

$2 + 7 = 9$

$3 + 6 = 9$

$4 + 5 = 9$

$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

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										
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.

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?



Fill this space with your
favourite multiplication
table.

