

CHAPTER – 9

HOW MANY TIMES

Page No 122:

Question 1: How many spiders? _____ One spider has _____ legs. In all, spider legs are 3 times _____ or $+$ $+$ $=$ _____ or $3 \times$ _____ $=$ _____



Answer:

There are 3 spiders. One spider has 8 legs. In all, spider legs are 3 times 8.
or $8 + 8 + 8 = \underline{24}$. or $3 \times \underline{8} = \underline{24}$.

Question 2:



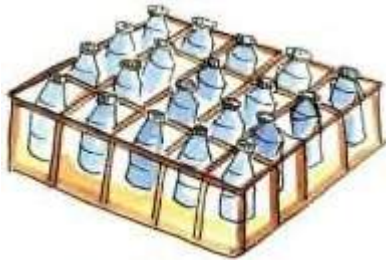
Do you know this leggy fellow? This is an octopus. It lives in the sea. It also has 8 legs. So how many legs altogether do 5 octopuses have?
 $+$ $+$ $+$ $+$ $=$ _____ or 5 times _____ $=$ _____ or $5 \times$ _____ $=$ _____

Answer:

$$8 + 8 + 8 + 8 + 8 = \underline{40} \text{ or } 5 \text{ times } \underline{8} = \underline{40} \text{ or } 5 \times \underline{8} = \underline{40}$$

Page No 123:

Question 1:



In the same way, how many bottles are these? _____ times _____ = _____ bottles

Answer:

There are 5 rows. Each row has 4 bottles. 5 times 4 = 20 bottles

Question 2: How many eggs? _____ times _____ = _____ eggs



Answer:

There are 5 rows and each row has 6 eggs. 5 times 6 = 30 eggs

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Question 1: Rewrite using the + sign. 2×5 is 2 times 5 or $5 + 5$ 4×18 is 4 times _____ or _____ + _____ + _____ + _____ 3×20 is _____ times _____ or _____ + _____ + _____ 8×9 is _____ times _____ or _____ + _____ + _____ + _____ + _____ + _____ + _____ + _____ + _____

Answer:

4×18 is 4 times 18 or 18 + 18 + 18 + 18 3×20
is 3 times 20 or 20 + 20 + 20 8×9
is 8 times 9 or 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9

Question 2: Tell how many times!

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

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

$$8 + 8 + 8 = \underline{\quad} \times 8 = \underline{\quad}$$

$$3 + 3 + 3 + 3 + 3 = 5 \times \underline{\quad} = \underline{\quad}$$

$$30 + 30 + 30 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$7 + 7 + 7 + 7 + 7 + 7 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$12 + 12 + 12 + 12 = \underline{\quad} \times 12 = \underline{\quad}$$

$$6 + 6 + 6 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$$

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

$$2 + 2 + 2 + 2 + 2 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$6 + 6 + 6 + 6 + 6 + 6 + 6 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$$

Answer:

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

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

$$8 + 8 + 8 = \underline{3} \times 8 = \underline{24}$$

$$3 + 3 + 3 + 3 + 3 = 5 \times \underline{3} = \underline{15}$$

$$30 + 30 + 30 = \underline{3} \times \underline{30} = \underline{90}$$

$$7 + 7 + 7 + 7 + 7 + 7 = \underline{6} \times \underline{7} = \underline{42}$$

$$12 + 12 + 12 + 12 = \underline{4} \times 12 = \underline{48}$$

$$6 + 6 + 6 = \underline{3} \times \underline{6} = \underline{18}$$

$$10 + 10 + 10 + 10 = \underline{4} \times \underline{10} = \underline{40}$$

$$2 + 2 + 2 + 2 + 2 = \underline{5} \times \underline{2} = \underline{10}$$

$$6 + 6 + 6 + 6 + 6 + 6 + 6 = \underline{7} \times \underline{6} = \underline{42}$$

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Question 1: Ramu bought 4 packets of biscuits. Each packet has 4 biscuits. How many biscuits did Ramu buy?

Answer:

Ramu bought 4 packets of biscuits. Each packet has 4 biscuits. Total biscuits that Ramu bought = 4

$\times 4 = 16$ Ramu bought 16 biscuits.

Question 2: There are 12 desks in a classroom. Each desk has 4 legs. What is the total number of legs of the desks?

Answer:

Number of desks in a classroom = 12 Each desk has 4 legs. Total number of legs = 12

$\times 4 = 48$ The desks have 48 legs.

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

Answer:

Sabiha brought 3 bunches of flowers. Each bunch has 4 flowers. Total number of flowers = 3

$\times 4 = 12$ There were 12 flowers.

Question 4: One rail coach has 8 wheels. How many wheels in all in 6 coaches?

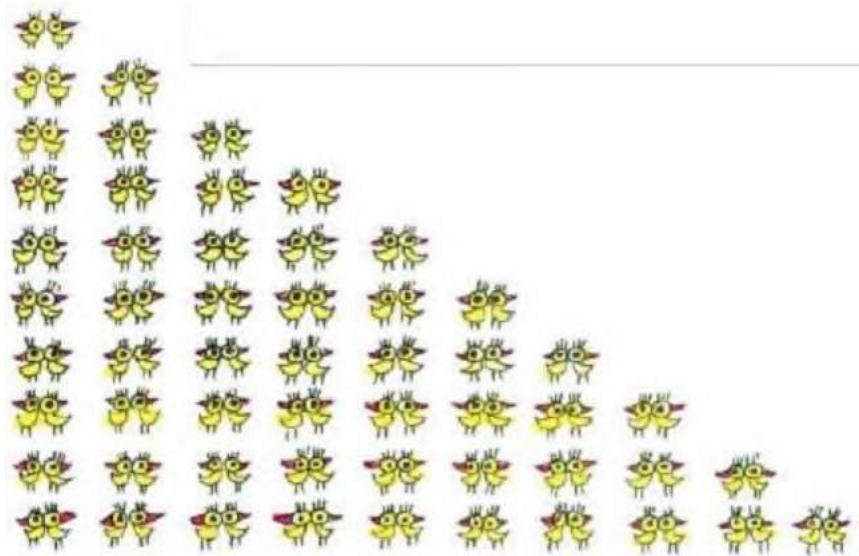
Answer:

Number of wheels in one rail coach = 8 Number of coaches = 6 Total number of wheels = 6

$\times 8 = 48$ There are 48 wheels in 6 coaches.

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Question 1:



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 $6 \times 2 =$ _____

_____ times 2 is _____ or _____ $\times 2 =$ _____

_____ times _____ is _____ or 8×2 = _____

_____ times _____ is _____ or 9×2 = _____

_____ times _____ is _____ or 10×2 = _____

Answer:

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 8 or 4×2 = 8

5 times 2 is 10 or 5×2 = 10

6 times 2 is 12 or 6×2 = 12

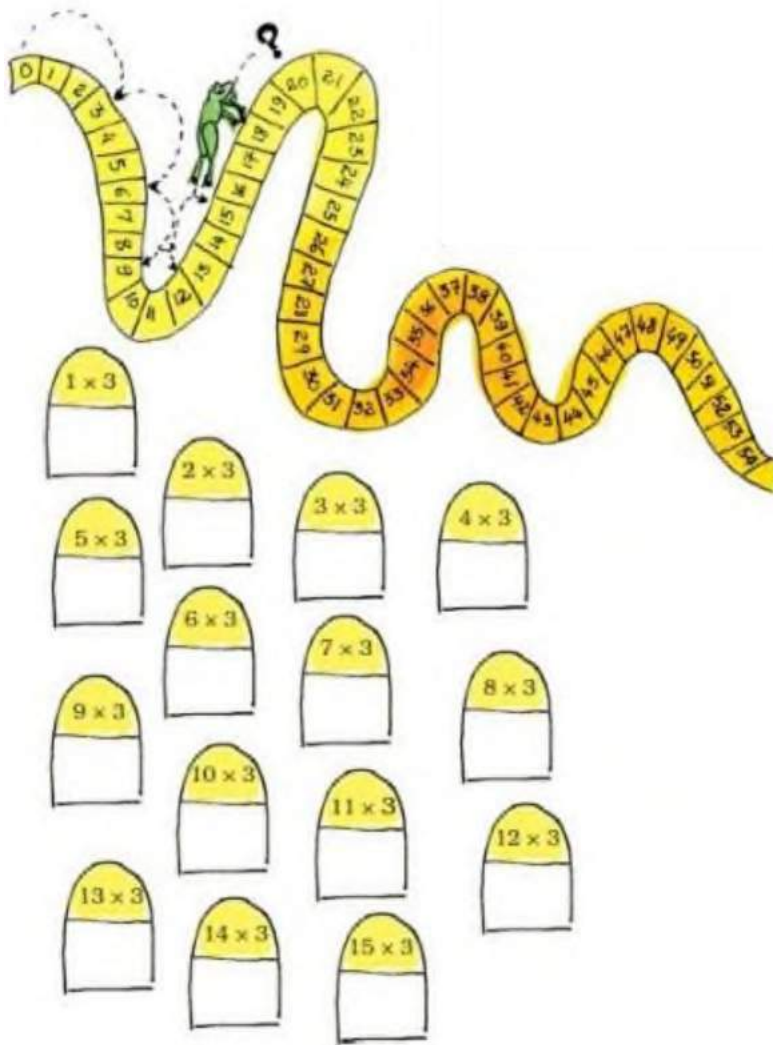
7 times 2 is 14 or $\underline{7} \times 2$ = 14

8 times 2 is 16 or 8×2 = 16

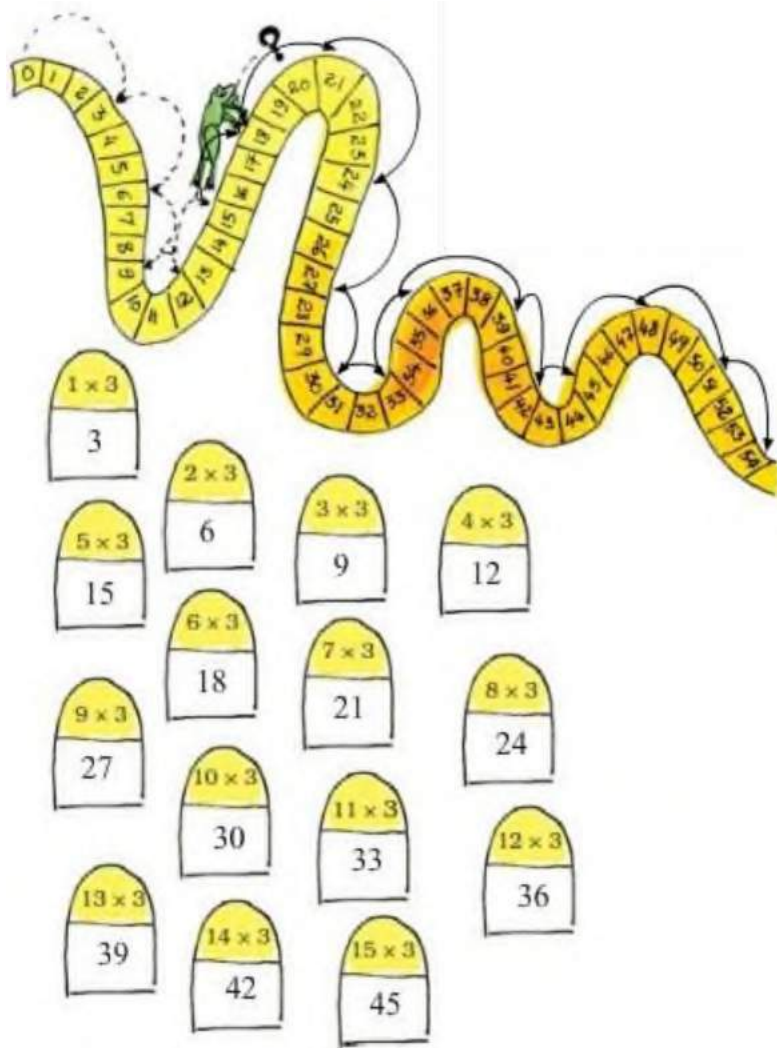
9 times 2 is 18 or 9×2 = 18

10 times 2 is 20 or 10×2 = 20

Question 1: Jump with Me Tarru Frog jumps 3 steps each time. Which numbers will Tarru touch?

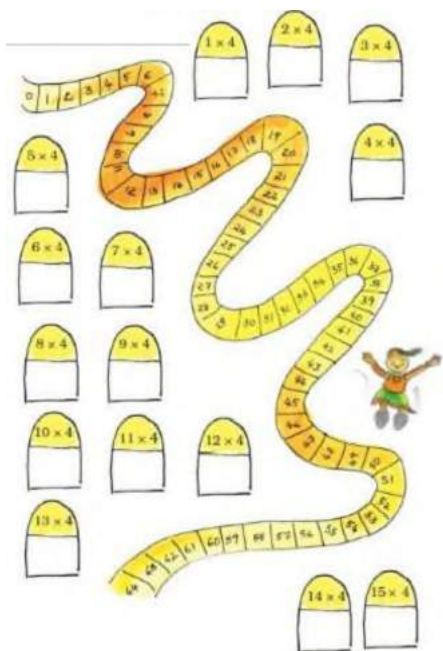


Answer:

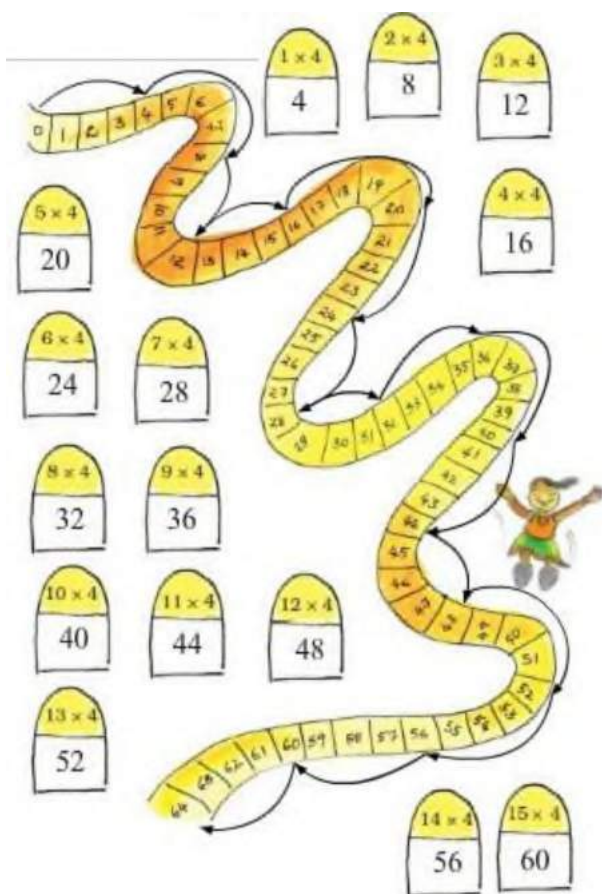


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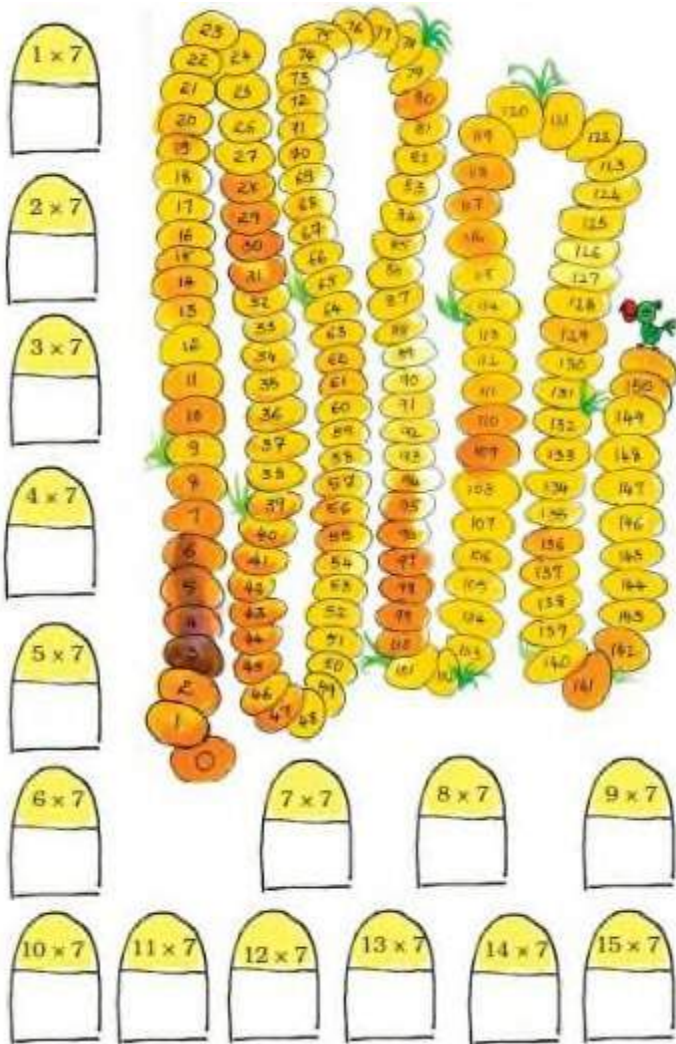
Question 1: *Show jumps with 4 steps*



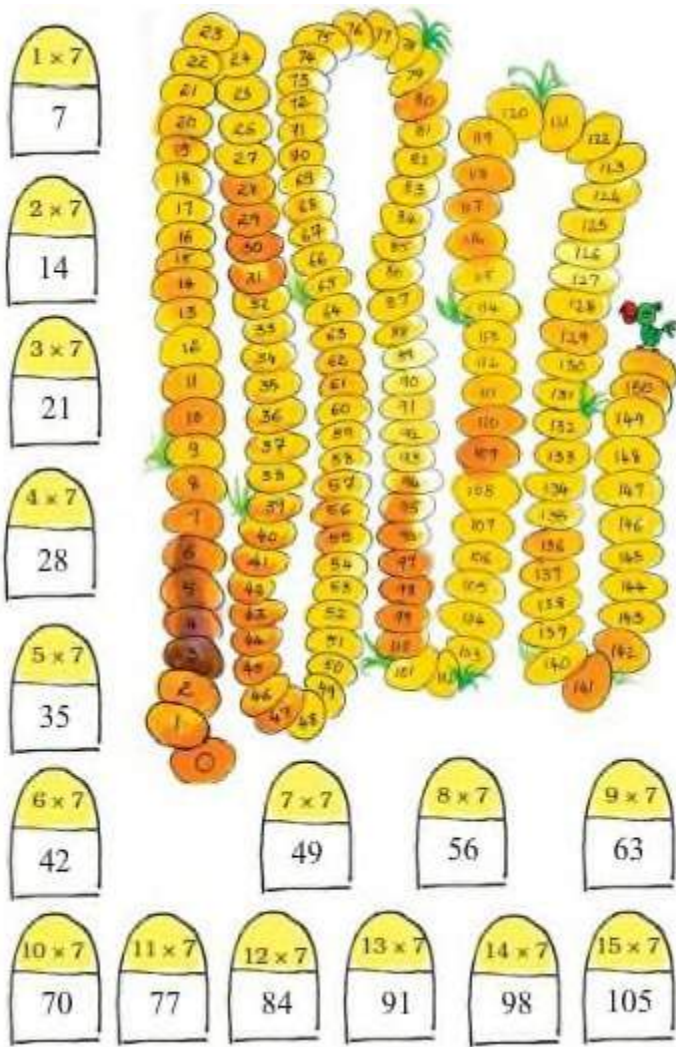
Answer:



Question 1: *Try jumps with seven steps*

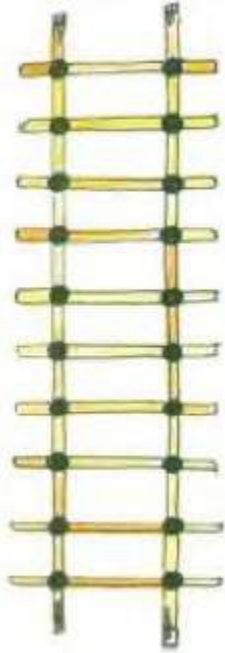


Answer:



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Question 1: Let's try making a 2 times table with sticks:



$$1 \times 2 = 2 \quad 2 \times 2 = 4 \quad 3 \times 2 = 6 \quad 4 \times 2 = 8 \quad 5 \times 2 = 10 \quad 6 \times 2 = 12 \quad 7 \times 2 = 14 \quad 8 \times 2 = 16 \quad 9 \times 2 = 18 \quad 10 \times 2 = 20$$

Answer:

$$4 \times 2 = \underline{8} \quad 5 \times 2 = \underline{10} \quad 6 \times 2 = \underline{12} \quad 7 \times 2 = \underline{14} \quad 8 \times 2 = \underline{16} \quad 9 \times 2 = \underline{18} \quad 10 \times 2 = \underline{20}$$

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Question 1: Now draw sticks to make the multiplication table of 6:



Answer:

	$1 \times 6 = 6$
	$2 \times 6 = 12$
	$3 \times 6 = 18$
	$4 \times 6 = 24$
	$5 \times 6 = 30$
	$6 \times 6 = 36$
	$7 \times 6 = 42$
	$8 \times 6 = 48$
	$9 \times 6 = 54$
	$10 \times 6 = 60$

Question 2: Shopping with Tables How much do these things cost?

4 toffees cost _____ rupees.



3 pencil boxes cost _____ rupees. 10 pencil boxes cost _____ rupees.



9 balloons cost _____ rupees.



5 toys cost _____ rupees.



7 face masks cost _____ rupees.



Answer:

Number of toffees = 4 Each toffee costs Rs 2. Total cost = 4

$\times 2 = 8$ 4 toffees cost 8 rupees.

Number of pencil boxes = 3 Each pencil box costs Rs 10. Total cost = 3

$\times 10 = 30$ 3 pencil boxes cost 30 rupees.

Total cost of 10 pencil boxes = 10

$\times 10 = 100$ 10 pencil boxes cost 100 rupees.

Number of balloons = 9 Each balloon costs Rs 5. Total cost = 9

$\times 5 = 45$ 9 balloons cost 45 rupees.

Number of toys = 5 Each toy costs Rs 4. Total cost = 5

$\times 4 = 20$ 5 toys cost 20 rupees.

Number of face masks = 7 Each face mask costs Rs 3. Total cost = 7

$\times 3 = 21$ 7 face masks cost 21 rupees.

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Question 1: Practice Time *Complete the following:* $2 \times 7 =$ _____

$4 \times 9 =$ _____ $5 \times 8 =$ _____ $10 \times 6 =$ _____ $5 \times 9 =$ _____

_____ $3 \times 9 =$ _____ $5 \times 2 =$ _____ $3 \times 10 =$ _____

_____ $2 \times 8 =$ _____ $10 \times 8 =$ _____

Answer:

$$\begin{array}{l}
 2 \times 7 = \underline{14} \quad 4 \times 9 = \underline{36} \quad 5 \times 8 = \underline{40} \quad 10 \times 6 = \underline{60} \quad 5 \times 9 = \underline{45} \quad 3 \times 9 = \underline{27} \\
 5 \times 2 = \underline{10} \quad 3 \times 10 = \underline{30} \quad 2 \times 8 = \underline{16} \quad 10 \times 8 = \underline{80}
 \end{array}$$

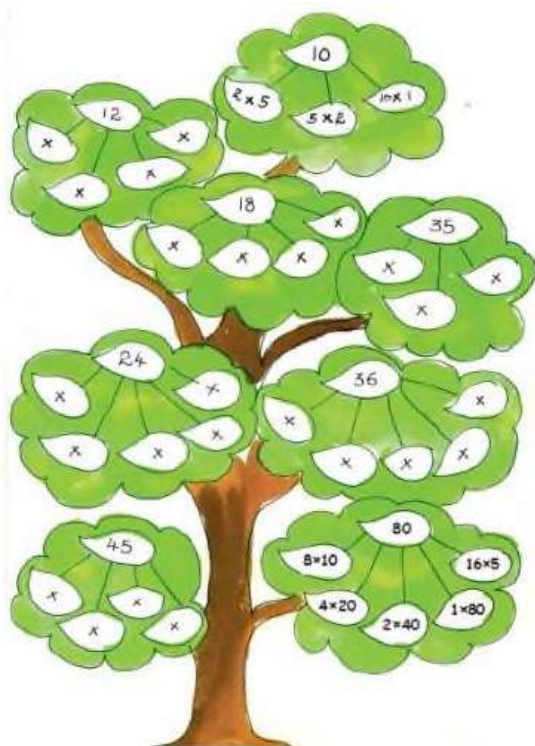
Question 2: Look at the patterns and complete them. 3, 6, 9, _____, _____, _____. 2, 4, 6, _____, _____, _____. 10, 20, 30, _____, _____, _____. 4, 8, 12, _____, _____, _____. 5, 10, 15, _____, _____, _____. 30, 60, 90, _____, _____, _____.

Answer:

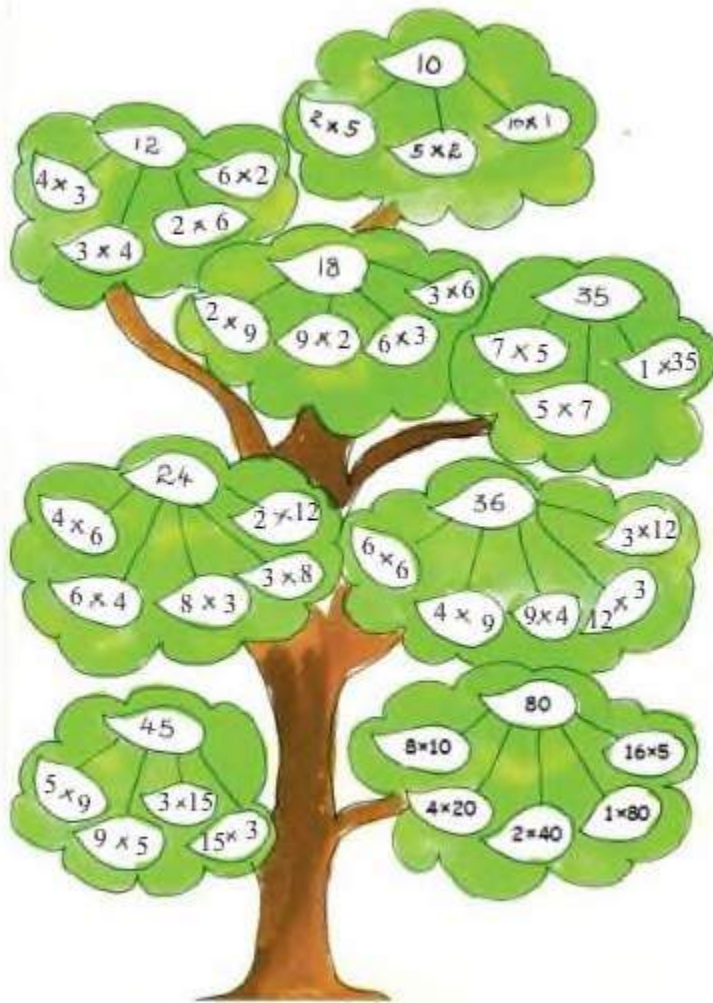
3, 6, 9, 12, 15, 18. 2, 4, 6, 8, 10, 12. 10, 20, 30, 40, 50, 60. 4, 8, 12, 16, 20, 24. 5, 10, 15, 20, 25, 30. 30, 60, 90, 120, 150, 180.

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Question 1: *Complete the multiplication tree*



Answer:



Page No 134:

Question 1: *How many in all?*

- 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?



Answer:

There are 3 shirts. Each shirt has 5 buttons. Total number of buttons = $3 \times 5 = 15$ 3 shirts will have 15 buttons.

There are 4 fans. Each fan has 3 blades. Total number of blades = $4 \times 3 = 12$ There are 12 blades in all.

There are 7 boxes. Each box has 6 apples. Total number of apples = $7 \times 6 = 42$ Seven boxes will have 42 apples.

There are 4 triangles. Each triangle has 3 corners. Total number of corners = $4 \times 3 = 12$ There would be 12 corners in 4 triangles.

Question 2: *Some multiplication facts:* • $8 \times 3 = \underline{\hspace{2cm}}$

• $3 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

• $\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{42}$

• $5 \times \underline{\hspace{1cm}} = \underline{40}$

• $\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{54}$

• $5 \times \underline{\hspace{1cm}} = 35$

• $\underline{\hspace{1cm}} \times 6 = 36$

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

• $\underline{\hspace{1cm}} \times 9 = 36$

• $\underline{\hspace{1cm}} \times 7 = 28$

Answer:

• $8 \times 3 = \underline{24}$

• $3 \times \underline{7} = \underline{21}$

• $\underline{7} \times \underline{6} = \underline{42}$

• $5 \times \underline{8} = \underline{40}$

• $\underline{6} \times \underline{9} = \underline{54}$

• $5 \times \underline{7} = 35$

• $\underline{6} \times 6 = 36$

• $10 \times \underline{8} = \underline{80}$

• $\underline{4} \times 9 = 36$

• $\underline{4} \times 7 = 28$

Question 1: 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 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

 times one is $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

 times one is $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

 times one is $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

 times one is $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

Answer:

one time one is $1 \times 1 = 1$

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

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

four times one is $\underline{4} \times \underline{1} = \underline{4}$

five times one is $\underline{5} \times \underline{1} = \underline{5}$

six times one is $\underline{6} \times \underline{1} = \underline{6}$

seven times one is $\underline{7} \times \underline{1} = \underline{7}$

eight times one is $\underline{8} \times \underline{1} = \underline{8}$

Page No 138:

Question 1: *Multiply:*

- $22 \times 3 =$
- $43 \times 2 =$
- $21 \times 4 =$
- $24 \times 2 =$
- $11 \times 5 =$
- $30 \times 5 =$
- $20 \times 4 =$
- $23 \times 9 =$
- $26 \times 4 =$
- $38 \times 2 =$
- $25 \times 3 =$
- $24 \times 5 =$
- $35 \times 3 =$
- $48 \times 4 =$
- $32 \times 5 =$
- $58 \times 2 =$

Answer:

- $22 \times 3 = 66$
- $43 \times 2 = 86$
- $21 \times 4 = 84$
- $24 \times 2 = 48$
- $11 \times 5 = 55$
- $30 \times 5 = 150$

- $20 \times 4 = 80$

- $23 \times 9 = 207$

- $26 \times 4 = 104$

- $38 \times 2 = 76$

- $25 \times 3 = 75$

- $24 \times 5 = 120$

- $35 \times 3 = 105$

- $48 \times 4 = 192$

- $32 \times 5 = 160$

- $58 \times 2 = 116$

Question 2: *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?



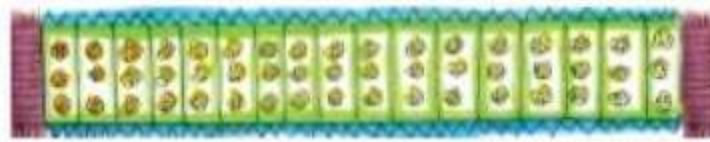
- A book has 64 pages. What will be the total number of pages in 8 such books?



- 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?



Answer:

- Number of flowers in one bunch = 13 Each flower has 5 petals. Total petals in the bunch = 13×5

	10	3
5	10×5	3×5
	50	15

Adding the number in the boxes:

So, 13

$\times 5 = 65$

$$\begin{array}{r} 5 \ 0 \\ + \ 1 \ 5 \\ \hline 6 \ 5 \end{array}$$

Thus, there are 65 petals in a bunch...

- Number of books = 8 Each book has 64 pages. Total pages in 8 books = 8×64

	60	4
8	60×8	4×8
	480	32

Adding the number in the boxes:

$$\begin{array}{r} 1 \\ 4 \ 8 \ 0 \\ + \ 3 \ 2 \\ \hline 5 \ 1 \ 2 \end{array}$$

So, 8

$$\times 64 = 512$$

There are 512 pages in all the 8 books.

- Number of rows in assembly = 6 Each row has 17 students. Total students in 6 rows = 6×17

	10	7
6	10×6	7×6
	60	42

Adding the number in the boxes:

$$\begin{array}{r} 60 \\ + 42 \\ \hline 102 \end{array}$$

So, 6

$$\times 17 = 102$$

There are 102 students in all the 6 rows.

- Number of designs on a piece of cloth = 17 Each design has 3 flowers in it. Total number of flowers on the cloth = 17×3

	10	7
3	10×3	7×3
	30	21

Adding the number in the boxes:

$$\begin{array}{r} 30 \\ + 21 \\ \hline 51 \end{array}$$

So, 17

$$\times 3 = 51$$

There are 51 flowers on the cloth.

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Question 1: Practice Time First guess the answer and then check it by calculating:

$$42 \times 23 = \underline{\hspace{2cm}} \quad 51 \times 13 = \underline{\hspace{2cm}} \quad 25 \times 36 = \underline{\hspace{2cm}} \quad 73 \times 11 = \underline{\hspace{2cm}} \\ 54 \times 12 = \underline{\hspace{2cm}} \quad 12 \times 14 = \underline{\hspace{2cm}}$$

Answer:

a)

	40	2
20	40×20 800	2×20 42
3	40×3 120	2×3 6

Adding the number in the boxes:

$$\begin{array}{r} 800 \\ 120 \\ 40 \\ + 6 \\ \hline 966 \end{array}$$

So, $42 \times 23 = 966$

b)

	50	1
10	50×10 500	1×10 10
3	50×3 150	1×3 3

Adding the number in the boxes:

$$\begin{array}{r}
 500 \\
 150 \\
 10 \\
 + 3 \\
 \hline
 663
 \end{array}$$

So, $51 \times 13 = 663$

c)

	20	2
30	20×30 600	5×30 152
6	20×6 120	5×6 30

Adding the number in the boxes:

$$\begin{array}{r}
 600 \\
 120 \\
 150 \\
 + 30 \\
 \hline
 900
 \end{array}$$

So, $25 \times 36 = 900$

d)

	70	2
10	70×10 700	3×10 30
1	70×1 70	3×1 3

Adding the numbers in the boxes:

$$\begin{array}{r}
 700 \\
 70 \\
 30 \\
 + 3 \\
 \hline
 803
 \end{array}$$

So, $73 \times 11 = 803$

e)

	50	4
10	50×10 500	4×40 40
2	50×2 100	4×2 8

Adding the number in the boxes:

$$\begin{array}{r}
 500 \\
 100 \\
 40 \\
 + 8 \\
 \hline
 648
 \end{array}$$

So, $54 \times 12 = 648$

f)

	10	2
10	10×10 100	2×10 20
4	10×4 40	2×4 8

Adding the number in the boxes:

$$\begin{array}{r} 1 \ 0 \ 0 \\ 4 \ 0 \\ 2 \ 0 \\ + \quad 8 \\ \hline 1 \ 6 \ 8 \end{array}$$

So, $12 \times 14 = 168$

Question 2: Multiplication Patterns

$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$1 + 8 = 9$$

$$9 \times 3 = 27$$

$$2 + 7 = 9$$

$$9 \times 4 = 36$$

$$3 + 6 = 9$$

$$9 \times 5 = 45$$

$$4 + 5 = 9$$

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

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

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

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$9 \times 8 = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

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

Answer:

The multiplication pattern is explained in the table given below. Ones digit of all the numbers are in descending order i.e. 8, 7, 6, 5, 4, 3, 2, 1.

And, the tens digit are the numbers in ascending order i.e. 1, 2, 3, 4, 5, 6, 7, 8. One's digit number and tens digit number adds to 9.

$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$1 + 8 = 9$$

$$9 \times 3 = 27$$

$$2 + 7 = 9$$

$$9 \times 4 = 36$$

$$3 + 6 = 9$$

$$9 \times 5 = 45$$

$$4 + 5 = 9$$

$$9 \times \underline{6} = \underline{54}$$

$$\underline{5} + \underline{4} = \underline{9}$$

$$9 \times \underline{7} = \underline{63}$$

$$\underline{6} + \underline{3} = \underline{9}$$

$$9 \times 8 = \underline{72}$$

$$\underline{7} + \underline{2} = \underline{9}$$

$$9 \times 9 = \underline{81}$$

$$\underline{8} + \underline{1} = \underline{9}$$

Page No 142:

Question 1: Complete the grid by multiplying the numbers

x	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										

Answer:

x	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	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

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Question 1:

- 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?

Answer:

x	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	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

No, we cannot see any colour pattern.

Question 2: Fill this space with your favorite multiplication table.



Answer:

Disclaimer: The answer may vary from student to student. Students are required to answer the question on their own.