

Chapter 9: How Many Times?

NCERT · Class 3 · Maths

LEGGY ANIMALS

Question 1

:

How many spiders? ____

One spider has ____ legs.

In all, spider legs are 3 times ____

Or, ____ + ____ + ____ = ____

Or $3 \times$ ____ = ____

Solution

How many spiders? **3**One spider has **8** legs.In all, spider legs are 3 times **8**Or, **$8 + 8 + 8 = 24$** Or **$3 \times 8 = 24$**

Question 2

:

So how many legs altogether do 5 octopuses have?

Solution

 $8 + 8 + 8 + 8 + 8 = 40$ legs

Or, 5 times 8 = 40 legs

Or, $5 \times 8 = 40$ legs

FIND THE NUMBER WITHOUT COUNTING

Question 3

:

In the same way, how many bottles are these?

Solution

4 times 5 = $4 \times 5 = 20$ bottles.

Question 4

:

How many eggs?

Solution

6 times 5 = $6 \times 5 = 30$ eggs.

PRACTICE TIME

Question 5

:

4×18 is 4 times ____ or ____ + ____ + ____ + ____

3×20 is ____ times ____ or ____ + ____ + ____

8×9 is ____ times ____ or ____ + ____ + ____ + ____ + ____ + ____ + ____ + ____ + ____

Solution

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 6

:

Tell how many times!

Solution

$$8 + 8 + 8 = 3 \times 8 = 24$$

$$3 + 3 + 3 + 3 + 3 = 5 \times 3 = 15$$

$$30 + 30 + 30 = 3 \times 30 = 90$$

$$7 + 7 + 7 + 7 + 7 + 7 = 7 \times 6 = 42$$

$$12 + 12 + 12 + 12 = 4 \times 12 = 48$$

$$6 + 6 + 6 = 6 \times 3 = 18$$

$$10 + 10 + 10 + 10 = 4 \times 10 = 40$$

$$2 + 2 + 2 + 2 + 2 = 2 \times 5 = 10$$

$$6 + 6 + 6 + 6 + 6 + 6 + 6 = 7 \times 6 = 42$$

Question 7

:

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

Solution

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

Question 8

:

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

Solution

Total number of legs of the desks = $12 \times 4 = 48$ legs.

Question 9

:

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

Solution

Total number of flowers = $3 \times 4 = 12$ flowers.

Question 10

:

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

Solution

Total number of wheels in 6 coaches = $8 \times 6 = 48$ wheels.

HOW MANY TIMES 2?

Question 11

:

Fill in the blanks

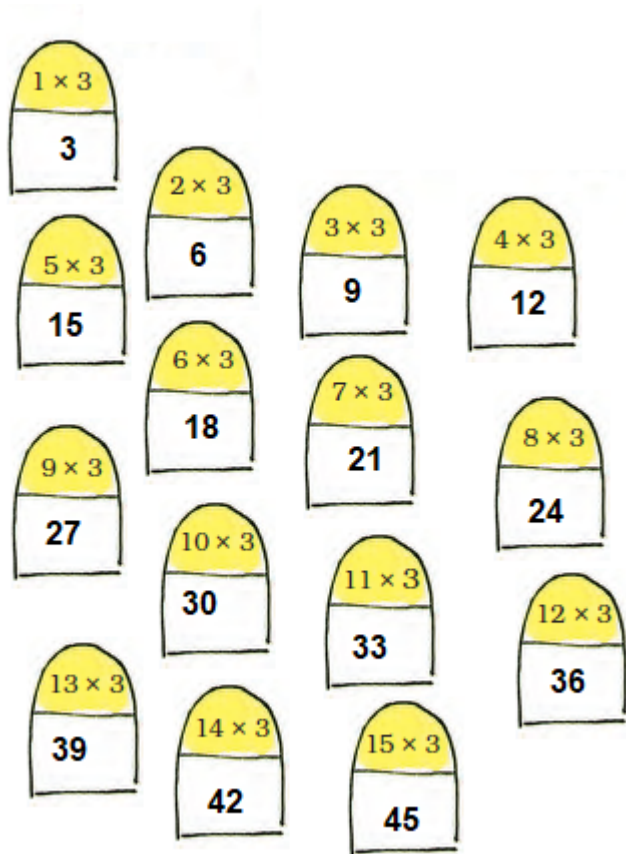
Solution

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 <u>8</u>	or	4×2	= <u>8</u>
5 times 2	is <u>10</u>	or	5×2	= <u>10</u>
6 times 2	is <u>12</u>	or	6×2	= <u>12</u>
<u>7</u> times 2	is <u>14</u>	or	<u> </u> $\times 2$	= <u>14</u>
<u>8</u> times <u>2</u>	is <u>16</u>	or	8×2	= <u>16</u>
<u>9</u> times <u>2</u>	is <u>18</u>	or	9×2	= <u>18</u>
<u>10</u> times <u>2</u>	is <u>20</u>	or	10×2	= <u>20</u>

JUMP WITH ME**Question 12**

Tarru Frog jumps 3 steps each time. Which numbers will Tarru touch?

Solution



STICK PLAY

Question 13

Try making a 2 times table with sticks

Solution

$$1 \times 2 = 2$$

$$2 \times 2 = 4$$

$$3 \times 2 = 6$$

$$4 \times 2 = 8$$

$$5 \times 2 = 10$$

$$6 \times 2 = 12$$

$$7 \times 2 = 14$$

$$8 \times 2 = 16$$

$$9 \times 2 = 18$$

$$10 \times 2 = 20$$

Question 14

:

Now draw sticks to make the multiplication table of 6.

Solution

$$1 \times 6 = 6$$

$$2 \times 6 = 12$$

$$3 \times 6 = 18$$

$$4 \times 6 = 24$$

$$5 \times 6 = 30$$

$$6 \times 6 = 36$$

$$7 \times 6 = 42$$

$$8 \times 6 = 48$$

$$9 \times 6 = 54$$

$$10 \times 6 = 60$$

SHOPPING WITH TABLES

Question 15

:

How much do these things cost?

1. 4 toffees cost ____ rupees.
 2. 3 pencil boxes cost ____ rupees.
 3. 10 pencil boxes cost ____ rupees.
 4. 9 balloons cost ____ rupees.
-

5. 5 toys cost ____ rupees.

6. 7 face masks cost ____ rupees.

Solution

1. $4 \times 2 = 8$ rupees

2. $3 \times 10 = 30$ rupees

3. $10 \times 10 = 100$ rupees

4. $9 \times 5 = 45$ rupees

5. $5 \times 4 = 20$ rupees

6. $7 \times 3 = 21$ rupees

PRACTICE TIME

Question 16

:

Complete the following:

Solution

$2 \times 7 = 14$

$3 \times 9 = 27$

$4 \times 9 = 36$

$5 \times 2 = 10$

$5 \times 8 = 40$

$3 \times 10 = 30$

$10 \times 6 = 60$

$2 \times 8 = 16$

$5 \times 9 = 45$

$10 \times 8 = 80$

Question 17

:

Look at the patterns and complete them.

Solution

3, 6, 9, **12, 15, 18.**

2, 4, 6, **8, 10, 12.**

10, 20, 30, **40, 50, 60.**

4, 8, 12, **16, 20, 24.**

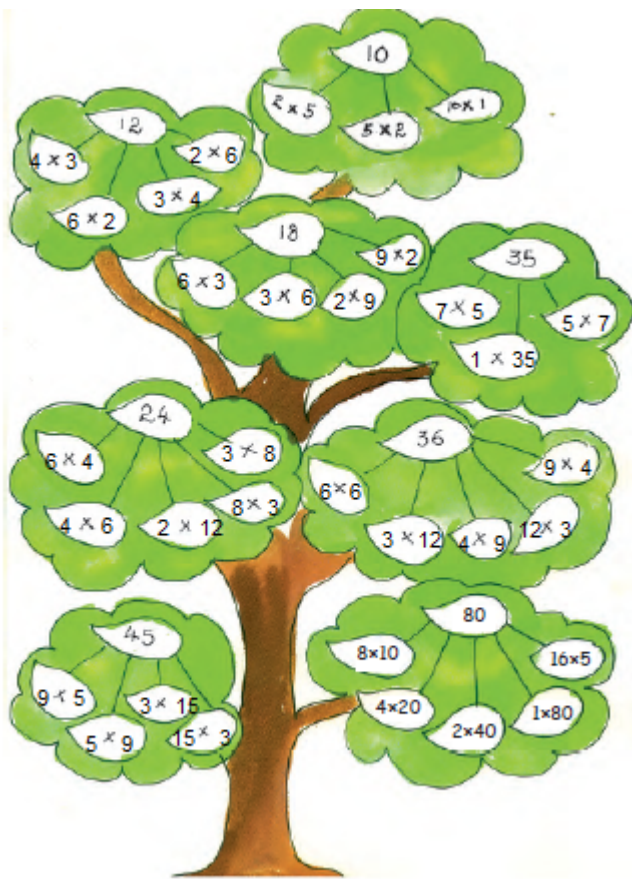
5, 10, 15, **20, 25, 30.**

30, 60, 90, **120, 150, 180**

Question 18

Complete the multiplication tree

Solution



Question 19

:

How many in all?

1. A shirt has 5 buttons. How many buttons would 3 shirts have?
2. There are four fans. Each fan has 3 blades. What is the total number of blades in all?
3. A box contains 6 apples. How many apples in all will seven boxes have?
4. How many corners would 4 triangles have?

Solution

1. $5 \times 3 = 15$ buttons
2. $4 \times 3 = 12$ blades
3. $6 \times 7 = 42$ apples
4. $4 \times 3 = 12$ corners

Question 20

:

Some multiplication facts**Solution**

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

$$\div 5 \times \underline{7} = 35$$

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

$$\div \underline{6} \times 6 = 36$$

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

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

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

$$\div \underline{4} \times 9 = 36$$

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

$$\div \underline{4} \times 7 = 28$$

PRACTICE TIME**Question 21**

:

Multiply**Solution**

$$22 \times 3 = 66$$

$$43 \times 2 = 86$$

$$21 \times 4 = 84$$

$$24 \times 2 = 48$$

$$11 \times 5 = 55$$

$$30 \times 5 = 150$$

$$20 \times 4 = 80$$

$$23 \times 9 = 207$$

$$26 \times 4 = 104$$

$$38 \times 2 = 76$$

$$25 \times 3 = 75$$

$$24 \times 5 = 120$$

$$35 \times 3 = 105$$

$$48 \times 4 = 192$$

$$32 \times 5 = 160$$

$$58 \times 2 = 116$$

Question 22

:

First, guess the answer and then calculate:

1. A flower has five petals. A bunch of flowers has 13 flowers. How many petals are there in the bunch?
2. A book has 64 pages. What will be the total number of pages in 8 such books?
3. Students stand in rows in the assembly. There are six rows of students. Each row has 17 students. How many students are there?
4. A design has 3 flowers in it. A piece of cloth has 17 such designs. How many flowers will be on the cloth?

Solution

1. Total number of petals = $5 \times 13 = 65$ petals.
2. Total number of pages = $64 \times 8 = 512$ pages.
3. Total number of students = $6 \times 17 = 102$ students.
4. Total number of flowers on the cloth = $3 \times 17 = 51$ flowers.

PRACTICE TIME

Question 23

:

First, guess the answer and then check it by calculating:

Solution

$$42 \times 23 = 966$$

$$73 \times 11 = 803$$

$$51 \times 13 = 663$$

$$54 \times 12 = 648$$

$$25 \times 36 = 900$$

$$12 \times 14 = 168$$

MULTIPLICATION PATTERNS

Question 24

$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$9 \times 3 = 27$$

$$9 \times 4 = 36$$

$$9 \times 5 = 45$$

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

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

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

$$1 + 8 = 9$$

$$2 + 7 = 9$$

$$3 + 6 = 9$$

$$4 + 5 = 9$$

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

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

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

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

Solution

$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$9 \times 3 = 27$$

$$9 \times 4 = 36$$

$$9 \times 5 = 45$$

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

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

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

$$1 + 8 = 9$$

$$2 + 7 = 9$$

$$3 + 6 = 9$$

$$4 + 5 = 9$$

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

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

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

Yes, the pattern in the 9 times table is that the sum of the digits in the product is always 9.

Question 25

:

Complete the grid by multiplying the numbers

Solution

×	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

Question 26

Look for other such crosses and copy them into your Notebook

Solution

×	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

$$6 + 12 + 18 = \mathbf{36} = 10 + 12 + 14$$

$$9 + 18 + 27 = \mathbf{54} = 16 + 18 + 20$$

$$8 + 10 + 12 = \mathbf{30} = 5 + 10 + 15$$