

Times tables are important to us as they make harder maths problems easier for us to solve. Times tables help us to not only work out multiplications but also divisions.

Lots of times tables can be connected using different patterns. The 3x tables and 6x tables are linked together by doubling and halving.

This example shows how we can use the 3x tables to work out the 6x tables.

$1 \times 3 = 3$  If we double the answer 3 we get 6:  $1 \times 6 = 6$

Let's try another one:

$4 \times 3 = 12$  If we double 12 we get 24:  $4 \times 6 = 24$

We can also use the 6x tables to work out the 3x tables. To do this we would half the answers.

$5 \times 6 = 30$  Half of 30 is 15:  $5 \times 3 = 15$

Can you colour in the 3x and 6x tables on the hundred squares below?

**3x**

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

**6x**

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Now you have identified the 3 and 6 times tables, can you use them to work out the answers to the following questions?

1.  $3 \times 3 =$  \_\_\_\_\_  $3 \times 6 =$  \_\_\_\_\_

2.  $5 \times 3 =$  \_\_\_\_\_  $5 \times 6 =$  \_\_\_\_\_

3.  $6 \times 3 =$  \_\_\_\_\_  $6 \times 6 =$  \_\_\_\_\_

4.  $2 \times 3 =$  \_\_\_\_\_  $2 \times 6 =$  \_\_\_\_\_

5.  $10 \times 3 =$  \_\_\_\_\_  $10 \times 6 =$  \_\_\_\_\_

6.  $8 \times 3 =$  \_\_\_\_\_  $8 \times 6 =$  \_\_\_\_\_

7.  $11 \times 3 =$  \_\_\_\_\_  $11 \times 6 =$  \_\_\_\_\_

8.  $9 \times 3 =$  \_\_\_\_\_  $9 \times 6 =$  \_\_\_\_\_

9.  $1 \times 3 =$  \_\_\_\_\_  $1 \times 6 =$  \_\_\_\_\_

10.  $12 \times 3 =$  \_\_\_\_\_  $12 \times 6 =$  \_\_\_\_\_

**Challenge:**

Set a timer for yourself. See if you can answer these questions below in two minutes.

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

$4 \times 3 = \underline{\hspace{2cm}}$

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

$11 \times 3 = \underline{\hspace{2cm}}$

$8 \times 3 = \underline{\hspace{2cm}}$

$9 \times 6 = \underline{\hspace{2cm}}$

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

$1 \times 3 = \underline{\hspace{2cm}}$

$0 \times 6 = \underline{\hspace{2cm}}$

$12 \times 6 = \underline{\hspace{2cm}}$

$11 \times 6 = \underline{\hspace{2cm}}$

$5 \times 3 = \underline{\hspace{2cm}}$

$7 \times 6 = \underline{\hspace{2cm}}$

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

$4 \times 6 = \underline{\hspace{2cm}}$

$5 \times 6 = \underline{\hspace{2cm}}$

$6 \times 3 = \underline{\hspace{2cm}}$

$12 \times 3 = \underline{\hspace{2cm}}$

$8 \times 6 = \underline{\hspace{2cm}}$

$0 \times 3 = \underline{\hspace{2cm}}$