

## 21 New Facts

You already know these times table facts:

0	1	2	5	10
$0 \times 0 = 0$	$1 \times 0 = 0$	$2 \times 0 = 0$	$5 \times 0 = 0$	$10 \times 0 = 0$
$0 \times 1 = 0$	$1 \times 1 = 1$	$2 \times 1 = 2$	$5 \times 1 = 5$	$10 \times 1 = 10$
$0 \times 2 = 0$	$1 \times 2 = 2$	$2 \times 2 = 4$	$5 \times 2 = 10$	$10 \times 2 = 20$
$0 \times 3 = 0$	$1 \times 3 = 3$	$2 \times 3 = 6$	$5 \times 3 = 15$	$10 \times 3 = 30$
$0 \times 4 = 0$	$1 \times 4 = 4$	$2 \times 4 = 8$	$5 \times 4 = 20$	$10 \times 4 = 40$
$0 \times 5 = 0$	$1 \times 5 = 5$	$2 \times 5 = 10$	$5 \times 5 = 25$	$10 \times 5 = 50$
$0 \times 6 = 0$	$1 \times 6 = 6$	$2 \times 6 = 12$	$5 \times 6 = 30$	$10 \times 6 = 60$
$0 \times 7 = 0$	$1 \times 7 = 7$	$2 \times 7 = 14$	$5 \times 7 = 35$	$10 \times 7 = 70$
$0 \times 8 = 0$	$1 \times 8 = 8$	$2 \times 8 = 16$	$5 \times 8 = 40$	$10 \times 8 = 80$
$0 \times 9 = 0$	$1 \times 9 = 9$	$2 \times 9 = 18$	$5 \times 9 = 45$	$10 \times 9 = 90$
$0 \times 10 = 0$	$1 \times 10 = 10$	$2 \times 10 = 20$	$5 \times 10 = 50$	$10 \times 10 = 100$

When you reverse the factors, you get the same product.  
This means that there are only 21 brand new multiplication facts to learn!

3	4	6	7	8	9
$3 \times 3 = 9$	$4 \times 4 = 16$	$6 \times 6 = 36$	$7 \times 7 = 49$	$8 \times 8 = 64$	$9 \times 9 = 81$
$3 \times 4 = 12$	$4 \times 6 = 24$	$6 \times 7 = 42$	$7 \times 8 = 56$	$8 \times 9 = 72$	
$3 \times 6 = 18$	$4 \times 7 = 28$	$6 \times 8 = 48$	$7 \times 9 = 63$		
$3 \times 7 = 21$	$4 \times 8 = 32$	$6 \times 9 = 54$			
$3 \times 8 = 24$	$4 \times 9 = 36$				
$3 \times 9 = 27$					

You can do this!

# 21 New Facts

×	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100

Do you know any number times 0 equals 0? That means you know all the zeroes.

Do you know any number times 1 equals the other number besides 1? That means you know all the ones.

Do you know how to count by 2, 5 and 10? Skip counting is the same as multiplication. That means you know all the twos, fives, and tens.

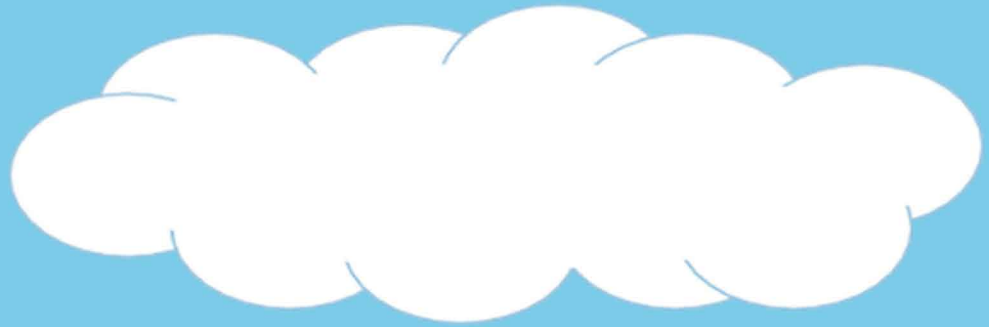
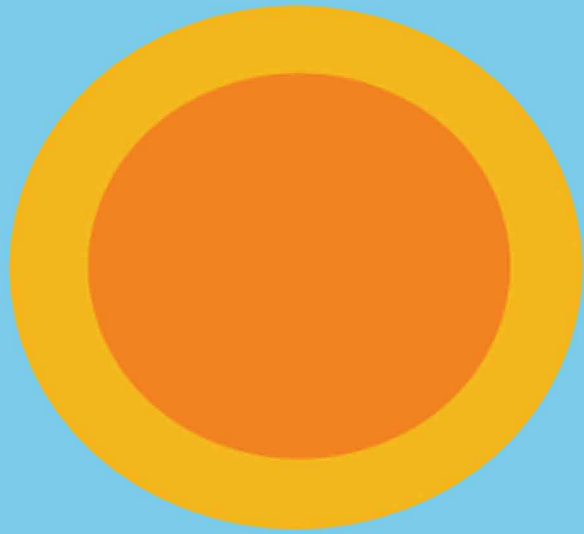
Do you know that when you reverse the factors in a multiplication problem, the product stays the same? This means that if you know  $2 \times 3 = 6$ , then you also know that  $3 \times 2 = 6$ . Once you learn  $3 \times 4 = 12$ , then you will also know  $4 \times 3 = 12$ , and so on.

**This is GREAT NEWS!** It means that you only have to learn 21 new facts.

# Only 21 New Facts to Learn

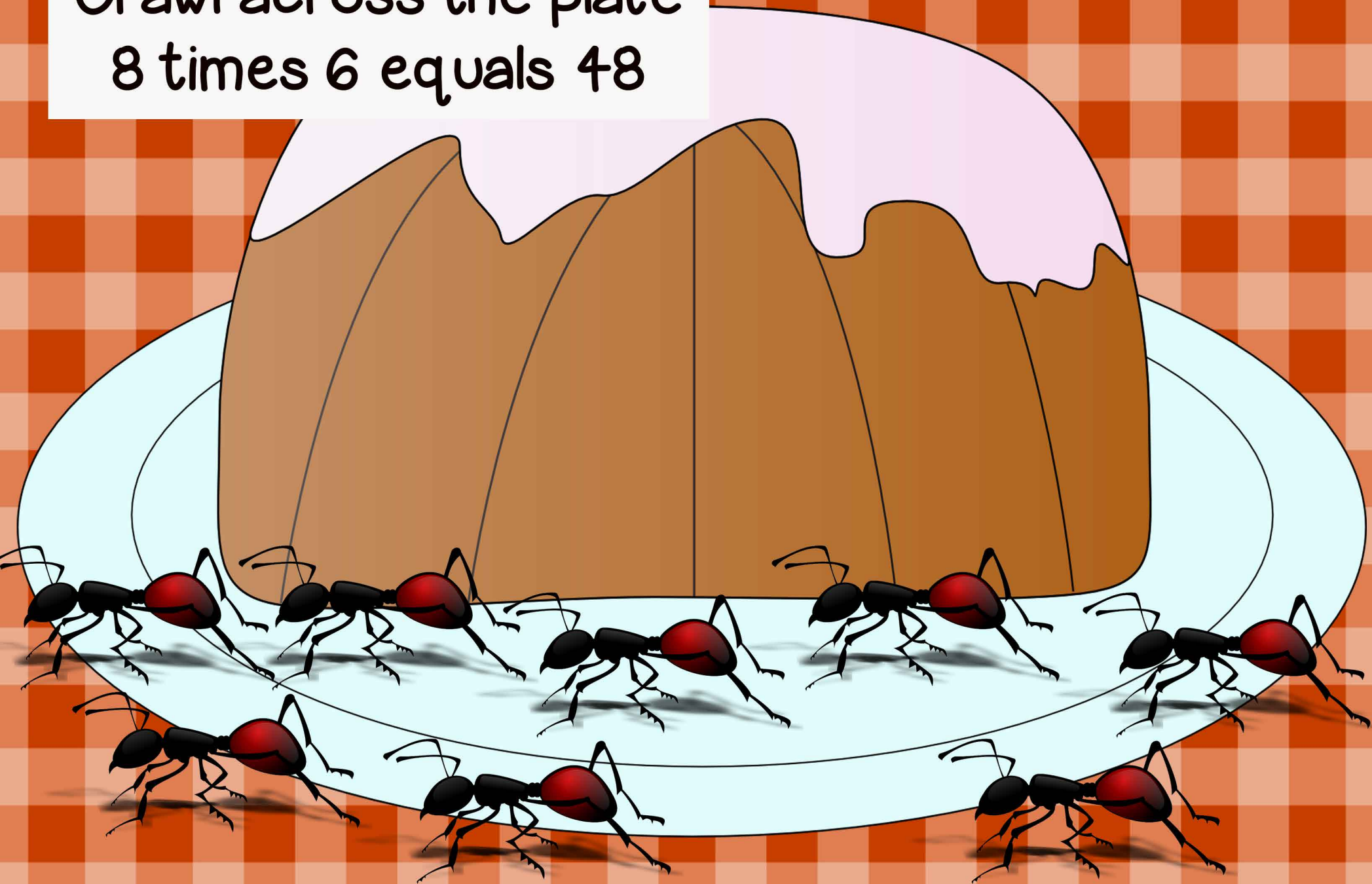
- If you can skip count by 2, 5, and 10, you already know those multiplication facts. Color in the rows and columns for 2, 5 and 10.
- If you understand that any number  $\times 0 = 0$  and any number  $\times 1 =$  the number besides 1, you already know those multiplication facts. Color in the rows and columns for 0 and 1.
- Now there are 36 facts left on the chart. But if you know that reversing the factors in a multiplication problem still equals the same product, you can color in some of these. For example, once you learn  $3 \times 4 = 12$ , then you will know  $4 \times 3 = 12$ . Once you learn  $3 \times 6 = 18$ , then you will know  $6 \times 3 = 18$ . So you can color in  $4 \times 3 = 12$ ,  $6 \times 3 = 18$ ,  $6 \times 4 = 24$ ,  $7 \times 3 = 21$ ,  $7 \times 4 = 28$ ,  $7 \times 6 = 42$ ,  $8 \times 3 = 24$ ,  $8 \times 4 = 32$ ,  $8 \times 6 = 48$ ,  $8 \times 7 = 56$ ,  $9 \times 3 = 27$ ,  $9 \times 4 = 36$ ,  $9 \times 6 = 54$ ,  $9 \times 7 = 63$ ,  $9 \times 8 = 72$ .
- The 21 new facts left over are the ones you need to concentrate on learning. That's not so hard!

$\times$	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100



3 skunks, 4 legs  
Spraying stinky smells  
3 times 4 equals 12

8 ants, 6 legs  
Crawl across the plate  
8 times 6 equals 48







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