

21 NEW FACTS

You already know all of these multiplication 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 factors in a multiplication equation, you get the same product. This means you do not have to learn some of the facts two times. Once you know $3 \times 4 = 12$, then you also know $4 \times 3 = 12$. There are only 21 facts left 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?
This means you already know all the zeroes.

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

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

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

 **THIS IS GREAT NEWS!** 

It means you only have to learn 21 new facts. These are the products on the multiplication table at the top of the page that are not shaded.

FINDING THE 21 NEW FACTS

If you understand that any number $\times 0 = 0$ and any number $\times 1 =$ the other number besides 1, you already know all the zeroes and ones. Color in the rows and columns for 0 and 1.

If you can skip count by 2, 5, and 10, you already know all the twos, fives, and tens. Color in the rest of the rows and columns for 2, 5, and 10.

Now there are 36 facts left on the table. But if you know that reversing the factors in a multiplication equation doesn't change the product, you can color in some of these facts since you don't have to learn them twice.

Color in $4 \times 3 = 12$, $6 \times 3 = 18$, $6 \times 4 = 24$, $7 \times 3 = 21$, $7 \times 4 = 28$, $7 \times 6 = 42$, $8 \times 3 = 24$, $8 \times 4 = 32$, $8 \times 6 = 48$, $8 \times 7 = 56$, $9 \times 3 = 27$, $9 \times 4 = 36$, $9 \times 6 = 54$, $9 \times 7 = 63$, $9 \times 8 = 72$.

\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

The 21 facts left over are the ones you need to learn. That's not so hard!

FINDING THE 21 NEW FACTS

If you understand that any number $\times 0 = 0$ and any number $\times 1 =$ the other number besides 1, you already know all the zeroes and ones. Color in the rows and columns for 0 and 1.

If you can skip count by 2, 5, and 10, you already know all the twos, fives, and tens. Color in the rest of the rows and columns for 2, 5, and 10.

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\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

The 21 facts left over are the ones you need to learn. That's not so hard!

MULTIPLICATION

ANY NUMBER $\times 0 = 0$

ANY NUMBER $\times 1 =$ THE NUMBER BESIDES 1

2

$$\begin{aligned}2 \times 0 &= 0 \\2 \times 1 &= 2 \\2 \times 2 &= 4 \\2 \times 3 &= 6 \\2 \times 4 &= 8 \\2 \times 5 &= 10 \\2 \times 6 &= 12 \\2 \times 7 &= 14 \\2 \times 8 &= 16 \\2 \times 9 &= 18 \\2 \times 10 &= 20\end{aligned}$$

5

$$\begin{aligned}5 \times 0 &= 0 \\5 \times 1 &= 5 \\5 \times 2 &= 10 \\5 \times 3 &= 15 \\5 \times 4 &= 20 \\5 \times 5 &= 25 \\5 \times 6 &= 30 \\5 \times 7 &= 35 \\5 \times 8 &= 40 \\5 \times 9 &= 45 \\5 \times 10 &= 50\end{aligned}$$

10

$$\begin{aligned}10 \times 0 &= 0 \\10 \times 1 &= 10 \\10 \times 2 &= 20 \\10 \times 3 &= 30 \\10 \times 4 &= 40 \\10 \times 5 &= 50 \\10 \times 6 &= 60 \\10 \times 7 &= 70 \\10 \times 8 &= 80 \\10 \times 9 &= 90 \\10 \times 10 &= 100\end{aligned}$$

3

$$\begin{aligned}3 \times 3 &= 9 \\3 \times 4 &= 12 \\3 \times 6 &= 18 \\3 \times 7 &= 21 \\3 \times 8 &= 24 \\3 \times 9 &= 27\end{aligned}$$

4

$$\begin{aligned}4 \times 4 &= 16 \\4 \times 6 &= 24 \\4 \times 7 &= 28 \\4 \times 8 &= 32 \\4 \times 9 &= 36\end{aligned}$$

6

$$\begin{aligned}6 \times 6 &= 36 \\6 \times 7 &= 42 \\6 \times 8 &= 48 \\6 \times 9 &= 54\end{aligned}$$

7

$$\begin{aligned}7 \times 7 &= 49 \\7 \times 8 &= 56 \\7 \times 9 &= 63\end{aligned}$$

8

$$\begin{aligned}8 \times 8 &= 64 \\8 \times 9 &= 72\end{aligned}$$

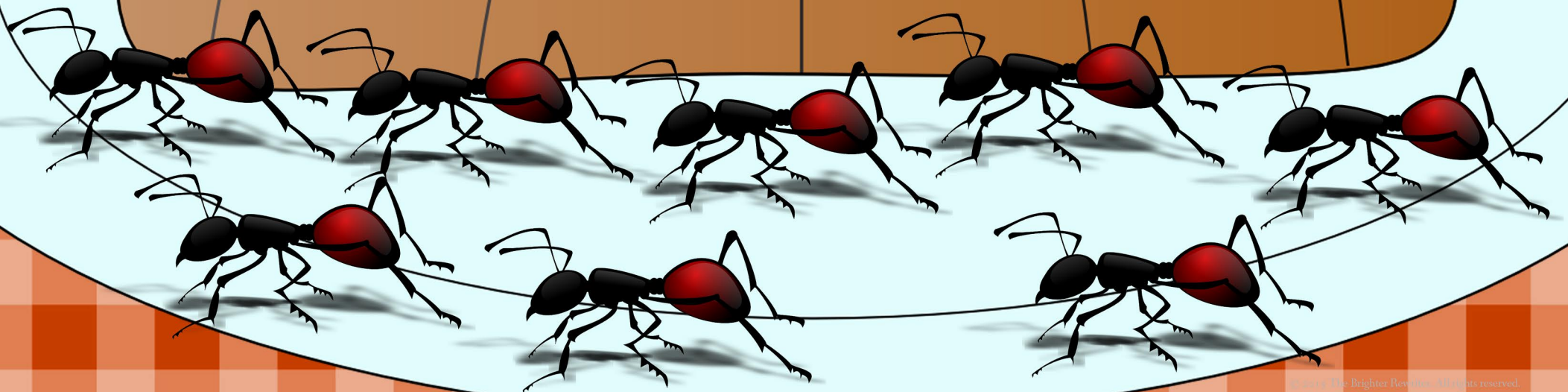
9

$$9 \times 9 = 81$$

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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ABOUT ME

Hi, I'm Sandra. I've spent 32 years in 3rd-5th grades as a classroom teacher & interventionist. I hold a B.S. in Elementary Education & a M.Ed. in Instructional Leadership, with additional certifications in ESL & Special Education. I love to rewrite lyrics to popular songs for educational & motivational purposes. My favorite learning tool is a sense of humor.



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