Exponent rules jigsaw

3- = 3-	3
	_ to the power of equals multiplied by
3⁵= 3∙	3·3·3·3
multipl	_ to the power of equals multiplied by ied bymultiplied bymultiplied by
3 ⁷ = 3·	3·3·3·3·3·3 =
multipl multipl	_ to the power of equals multiplied by ied by multiplied bymultiplied by ied by multiplied by
It can	be written by using brackets as follows
(3·3)·(:	3·3·3·3·3)
And ex	pressed with exponents
3 ² •	3 ⁵ = 3 ^{2 5}
Anothe	er example can be
(make check	up an example with different base and different exponent a it)
So the	general rule is
	a [×] ⋅ a ^y = a ^{× y}
that ca	n be read as:
In a pr	oduct of powers with the same

3 ² = 3·3 to the power of equals multiplied by 3 ⁵ = 3·3·3·3·3	
to the power of equals multiplied by $3^5=3\cdot3\cdot3\cdot3\cdot3$	
to the power of equals multiplied by 3 ⁵ = 3·3·3·3·3	
3⁵= 3·3·3·3·3	
to the power of equals multiplied by multiplied bymultiplied bymultiplied by	
3 ⁷ = 3·3·3·3·3·3·3·3	
to the power of equals multiplied by multiplied by multiplied by multiplied by	
3 ⁷ : 3 ⁵ =	
can be written as	
3·3·3·3·3·3·3:(3·3·3·3) =	
you can group factors	
(3·3)· <mark>(3·3·3·3·3):(3·3·3·3)</mark> =	
(3·3)· <mark>1</mark> =	
3·3 =	
$3.3 = 3^2$	
$3^7: 3^5 = 3^{7 \dots 5}$	
Another example can be (make up an example with different base and different expon check it)	ient an
So the general rule is $\mathbf{x} = \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{y}$	
that can be read as:	
In a division of powers with the same	
you leave the same and the even	onents

Exponent rules jigsaw

_	
	3 ² = 3·3
	to the power of equals multiplied by
	(3 ⋅3)⁵= (3⋅3)⋅(3⋅3)⋅(3⋅3)⋅(3⋅3)⋅(3⋅3)
	multiplied byto the power ofequals multiplied bymultiplied bymultiplied bymultiplied bymultiplied bymultiplied bymultiplied by multiplied bymultiplied by
	It can be written without the brackets as follows
	3·3·3·3·3·3·3·3·3·3·3·3·3·3·3
	Written as a power this is
	3
	Finally it can be expressed with exponents
	$(3^2)^5 = 3^{2 \dots 5}$
	Another example can be
	(make up an example with different base and different exponent and check it)
	So the general rule is
	(a [×]) ^y = a ^{× y}
	that can be read as:
	In a power of another power
	you leave the same andthe exponents

