



1. Write each of the following in *index form*

2. Write down how you would 'say' each of the following and then write in expanded form

3. Write each of the following in *expanded*

	Index form	Base	Index	Expanded form	Basic Numeral			
3a	2 ²							
В	3 ³							
С	0 ³							
D	6 ²							
E	17							
F	8							
G	7 ³							
Н	10 ⁵							
I	6							
J	0 ⁶							
k. Fi	k. Finish the sentences by looking at your answers above							
	• When the base is 1 the basic numeral will always be							
	When the base is 0 the basic numeral will always be							
• A whole number with no index written, really has an index of								
4a	2 ¹							
b	3 ¹							
С	4 ¹							
d	5 ¹							
e	What's the pattern?							







	Index form	Base	Index	Expanded form	Basic Numeral		
5.a	2 ¹						
b	2 ²						
С	2 ³						
d	2 ⁴						
е	2 ⁵						
f	1 ²						
g	2 ²						
h	3 ²						
i	4 ²						
j	5 ²						
k	6 ²						
	7 ²						
m	8 ²						
n	9 ²						
0	10 ²						
р	Explain what the	e differen	ce is betw	een 5a-e AND 5 f-o:			
q	What makes a number a square number? Where does it get this name from? Shade over the "square numbers" (the ones in the 'basic numeral' column)						



	Index form	Base	Index	Expanded form	Basic Numeral	
6a	10 ¹					
b	10 ²					
с	10 ³					
d	10 ⁴					
е	10 ⁵					
f	10 ⁶					
g	What's the pattern?					
7	Use a calculator for the next questions					
а	3 ⁰					
b	6 ⁰					
С	1000 ⁰					
d	536,783 ⁰					
e	O ⁰					
f	5.6 ⁰					
g	1,000,000,000 ⁰					
h	What's the patte	ern?				

 $\begin{array}{r} 4^2 = 16 \\ 34^2 = 1156 \\ 334^2 = 111556 \\ 3334^2 = 11115556 \\ 33334^2 = 1111155556 \\ 33334^2 = 11111555556 \\ acc \\ etc \end{array}$

 $9^2 = 81$ $99^2 = 9801$ $999^2 = 998001$ $9999^2 = 99980001$ 666 $99999^2 = 9999800001$ 6666 $999999^2 = 99999800001$ 6666etc

 $7^2 = 49$ $67^2 = 4489$ $667^2 = 444889$ $6667^2 = 44448889$ $66667^2 = 4444488889$ $66667^2 = 4444488889$ $666667^2 = 44444888889$ etc



