

Write the calculations in the correct columns.



4

5



9²



Fill in possible missing numbers to make the number sentences correct. Use a calculator to help you.



Can you find any other numbers that have more than one calculation involving a power?



er of 64	Answer of 81
3	٩ [°]
8) 2	34
6	(-3) 4



6

a) Use a calculator to complete the tables.

30	3 ¹	3 ²	33	34	3⁵	3 ⁶	37
1	3	9	27	ଞା	243	729	2,187
		1	1	1	1		

(–3) ⁰	(–3) ¹	(–3) ²	(−3) ³	(-3)4	(–3)⁵	(–3)6	(–3)7
1	-3	9	-27	81	-243	729	-2,183

b) What patterns do you notice between the tables?

The numbers are the same but in the

second table every other value is negative.

c) How do you know that (-2.5)⁸ will be positive?

The power is even

7

Circle all the calculations that will have a negative answer.



Compare answers with a partner.

What do you notice?

8	Work out the calculations. Use a calculator to help you.					
	a) $\sqrt[1]{27} = 27$	c)				
	b) √1,296 = 6	d)				
	Is there more than one possible	soluti				
9	Complete the function machines					
	Use a calculator to help you.					
	a) input	outp				
	-27 → ³ √ →					
	b) input	outp				
	27 → () ³ →	19,69				
	c) input	outp				
	625 → √ →	5				
	d)input	outp				
	4 → () ⁵ →	1,02				
10	Tommy and Rosie think of the so	ame r				
	Tommy squares the number. Rosie cubes the number. Tommy's answer is greater than Rosie					
	What number could Tommy and Rosi					
	How many different solutions can yo					



ion for any of the questions?







put 24

number.

ie's. sie be thinking of? ou find?



