

1		2		3		4		5
		6						
7						8	9	
			10		11			
12	13				14			
			15	16				
17		18				19		20
				21				
22						23		

Across

1. Smallest 3-digit cube
4. $\sqrt{982081}$
6. 3_6
7. Largest square number below 200
8. First 3 digits of $\sqrt{179\ 854\ 921}$
10. $\sqrt[3]{5\ 929\ 741}$
12. $2_{10} + 2_7$
14. $\sqrt{2.25} \times 16_3$
15. Answer to 6 across plus 10_2
17. A palindromic square number
19. A square, and each digit is square
21. $5_4 + 4_4$
22. $(\sqrt{905})^2$
23. 3 squared, cubed

Down

1. A palindromic square number
2. 24_2
3. $2 \times 10_3 - 2_1$
4. Biggest 3-digit square number
5. $(\sqrt{2} \times \sqrt{72})_2$
9. Last three digits of 2_{14}
10. A power of 2
11. Rearrange the digits of 14_2 to form another square number
13. Mean of 1 across and 11 down
16. A 7th power
17. $10 \times 8_2 + 3_2$
18. 5 squared squared
19. $\sqrt[3]{72\ 511\ 713}$
20. 11 down plus $\sqrt{900}$

Solution Grid

1	2	5		1		9	9	1
2		7	2	9		6		4
1	9	6		9		1	3	4
			1	8	1		8	
1	1	5	2		6	1	4	4
	4		8	2	9			
6	7	6		1		4	4	1
4		2		8	8	1		9
9	0	5		7		7	2	9