

Base conversions

Name _____

Date _____

Convert each number. Show your working.

Problem	Answer	Problem	Answer
1. 5 (decimal) to binary		13. 125 (decimal) to binary	
2. 10110 (binary) to decimal		14. 1000 (binary) to decimal	
3. 143 (decimal) to hexadecimal		15. 189 (decimal) to hexadecimal	
4. 81 (hex) to binary		16. CB (hex) to binary	
5. 66 (decimal) to binary		17. 82 (decimal) to binary	
6. 10111101 (binary) to decimal		18. 100001 (binary) to decimal	
7. 207 (decimal) to hexadecimal		19. 151 (decimal) to hexadecimal	
8. 70 (hex) to binary		20. AF (hex) to binary	
9. 127 (decimal) to binary		21. 136 (decimal) to binary	
10. 10000111 (binary) to decimal		22. 10010100 (binary) to decimal	
11. 154 (decimal) to hexadecimal		23. 103 (decimal) to hexadecimal	
12. 52 (hex) to binary		24. E5 (hex) to binary	

Answer key — Base conversions

#	Problem	Answer
1	5 (decimal) to binary	101
2	10110 (binary) to decimal	22
3	143 (decimal) to hexadecimal	8F
4	81 (hex) to binary	10,000,001
5	66 (decimal) to binary	1,000,010
6	10111101 (binary) to decimal	189
7	207 (decimal) to hexadecimal	CF
8	70 (hex) to binary	1,110,000
9	127 (decimal) to binary	1,111,111
10	10000111 (binary) to decimal	135
11	154 (decimal) to hexadecimal	9A
12	52 (hex) to binary	1,010,010
13	125 (decimal) to binary	1,111,101
14	1000 (binary) to decimal	8
15	189 (decimal) to hexadecimal	BD
16	CB (hex) to binary	11,001,011
17	82 (decimal) to binary	1,010,010
18	100001 (binary) to decimal	33
19	151 (decimal) to hexadecimal	97
20	AF (hex) to binary	10,101,111
21	136 (decimal) to binary	10,001,000
22	10010100 (binary) to decimal	148
23	103 (decimal) to hexadecimal	67
24	E5 (hex) to binary	11,100,101