

Decimal to binary

Name _____

Date _____

Convert each number to binary using repeated division by 2.

Problem	Answer	Problem	Answer
1. 5		9. 244	
2. 207		10. 50	
3. 196		11. 108	
4. 8		12. 8	
5. 113		13. 106	
6. 163		14. 69	
7. 134		15. 174	
8. 224		16. 224	

Notes

Answer key — Decimal to binary

#	Problem	Answer
1	5	101 (1,0,1 → read upward)
2	207	11001111 (1,1,1,1,0,0,1,1 → read upward)
3	196	11000100 (0,0,1,0,0,0,1,1 → read upward)
4	8	1000 (0,0,0,1 → read upward)
5	113	1110001 (1,0,0,0,1,1,1 → read upward)
6	163	10100011 (1,1,0,0,0,1,0,1 → read upward)
7	134	10000110 (0,1,1,0,0,0,0,1 → read upward)
8	224	11100000 (0,0,0,0,0,1,1,1 → read upward)
9	244	11110100 (0,0,1,0,1,1,1,1 → read upward)
10	50	110010 (0,1,0,0,1,1 → read upward)
11	108	1101100 (0,0,1,1,0,1,1 → read upward)
12	8	1000 (0,0,0,1 → read upward)
13	106	1101010 (0,1,0,1,0,1,1 → read upward)
14	69	1000101 (1,0,1,0,0,0,1 → read upward)
15	174	10101110 (0,1,1,1,0,1,0,1 → read upward)
16	224	11100000 (0,0,0,0,0,1,1,1 → read upward)

Notes