

Set up each problem vertically somewhere on this paper or an additional page to show your work (e.g. carrying values to the next column)

YOU WILL NOT RECEIVE ANY CREDIT FOR CORRECT ANSWERS WITHOUT EVIDENCE OF SCRATCHWORK.

Evaluate the following in binary:

1. $10001 + 101 = \underline{\hspace{2cm}}10110\underline{\hspace{2cm}}$

2. $1011 + 1110 = \underline{\hspace{4cm}}$

3. $110 + 11 = \underline{\hspace{4cm}}$

4. $101010 + 11011 = \underline{\hspace{4cm}}$

Evaluate the following in hexadecimal:

5. $12B + F3 = \underline{\hspace{2cm}}21E\underline{\hspace{2cm}}$

6. $39 + 44 = \underline{\hspace{4cm}}$

7. $FF + CCD = \underline{\hspace{4cm}}$

8. $2F + 1 = \underline{\hspace{4cm}}$

9. $19 + 19 = \underline{\hspace{4cm}}$

10. $2B + 3A + DD = \underline{\hspace{4cm}}$

Evaluate the following in octal:

11. $3 + 5 = \underline{\hspace{2cm}}10\underline{\hspace{2cm}}$

12. $12 + 6 = \underline{\hspace{4cm}}$

13. $345 + 111 = \underline{\hspace{4cm}}$

14. $7 + 7 = \underline{\hspace{4cm}}$

15. $23 + 10 = \underline{\hspace{4cm}}$

16. $77 + 77 = \underline{\hspace{4cm}}$

17. $012 + 55 = \underline{\hspace{4cm}}$

18. $111 + 11 = \underline{\hspace{4cm}}$

19. $7 + 1 = \underline{\hspace{4cm}}$

20. $4522 + 3217 = \underline{\hspace{4cm}}$