Math 365 Some Answers to Final Exam

1. 2100_{five}
2. (a) 11101_{two} (b) 100.01_{two}

3. 2550

4. As on other version of final exam.

5. See text.

6. As on other version of final exam.

7. (a) $\{1, 2, 3, 4, 8\}$ (b) $\{8\}$ (c) $\{8\}$ (d) $\emptyset$

8. 24

9. (a) 1.74 or 174 cents   (b) $87d$

10. 4

11. (a) yes (b) yes (c) no (d) no (e) yes (f) yes

12. 3

13. (a) $\frac{10}{3}$ or $3\frac{1}{3}$ (b) $-\frac{28}{27}$ or $-1\frac{1}{27}$ (c) $\frac{x+y}{x}$

14. (a) $\frac{2}{11}$ (b) $\frac{182}{15}$ or $12\frac{2}{15}$

15. 6

16. 25