

Name: \_\_\_\_\_

Block: \_\_\_\_\_

Date: \_\_\_\_\_

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Chemistry 11

**Molarity Worksheet Key**

Assignment

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1. a) 0.70M b) 0.00140M c) 1.71M d) 0.0769M
2. a) 161g b) 16.3g c) 5.71g d) 1.32g
3. 0.0875mol
4. 1.14L
5.  $7.15 \times 10^{-5}$  mol
6. 0.13L
7. 55.6M
8. 17.5M
9. 1.77 g/mL
10. 0.875g
11. 277g of acetone; 0.427g of benzoic acid. Since the volume of solvent used was 350.0mL, the very small amount of benzoic acid wouldn't change the overall volume appreciably.
12.  $1.0 \times 10^{-4}$ M
13. 0.0609L or 60.9mL
14. 0.185L
15. 2.07M
16. 1.25M
17. 14.6mL
18. 11.7g
19. 0.204M
20. 0.188L
21. 0.326M
22. 0.318M
23. 1.21M
24. 0.240M
25. a) 0.268M b)  $1.901 \times 10^{-3}$ M c) 0.0649M
26. a) 2.66M b) 0.143M c) 0.16M d) 0.260M
27. a) 1.07M b) 0.0288M c) 0.586M
28. a)  $1.5 \times 10^3$ g b) 8.45g c) 5.12g
29. a) 6.162M b) 13.6M c) 10.91M
30. 0.417L
31. 3.25mL
32. 14.0g
33. 4.68mol
34. 2.88g/mL
35. 0.145L
36. 0.552mol
37. 0.158L
38. 0.124M
39. 0.44M
40. 11.3M