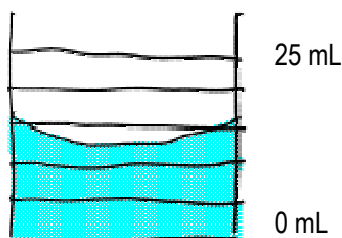


## Significant Figures Practice

For numbers 1-30, report how many significant figures each of the following numbers contain:

1. 129
2. 5,007
3. 100
4. 0.0025
5. 0.000470
6. 0.47000
7. 501.0
8. 699.5
9. 1.020
10.  $3.01 \times 10^{21}$
11. 0.000410
12. 6,051.00
13. 102,000
14. 10,001
15. 0.90100
16. 304,000
17.  $0.2 \times 10^{22}$
18. 7,000,000,000
19. 3.001
20. 10.01
21. 1.200
22. 9.99
23. 777
24. 4.523
25. 0.1
26. 10
27. 1.2
28. 250
29. 0.17
30. What is the volume of liquid in the graduated cylinder shown below? How many significant figures does this measurement have?



For 16-25, calculate the answers being sure to report your answers with the correct number of significant figures or decimal places:

31.  $2.3 - 1.66$
32.  $6.00 + 4.0$
33.  $3.0 + 2 + 4.0 + 6.0$
34.  $30.0 - 20.0 - 8.2 - 3.8$
35.  $5.00 - 4.2856 + 6.0325 - 2.0$
36.  $2.0 \times 4.01$
37.  $3.0 \times 2$
38.  $(9.714 \times 10^5)(2.1482 \times 10^{-9}) / 4.12$
39.  $(250 + 50)(6.0) / .5$
40.  $0.05 \times 10^{-7} \text{ g} / 3.0 \times 10^{-7} \text{ mL}$