

Underline the significant figures are in each measurement.

- 143 g
- 0.00740 cm
- $8.750 \times 10^8$  mg
- 12.17°C
- 10800 m
- 5.0 dm

Round off each of these measurements to 3 significant figures.

- 98.473 L
- 0.0007632 cg
- 57.084 m
- 12.17°C
- $7.4983 \times 10^4$  mm
- 1764.9 mL
- 69998 kg
- 0.0499802 L
- 1779 g

Assume that all of the numbers are measured quantities, and that the measuring device was used correctly. Round the answer to the correct number of sig figs based on the numbers in the problem.

- $0.256 \times 150$
- $0.0043 \times 0.8000$
- $\frac{240}{0.30}$
- $10500 \times 30.62$
- $4.2 + 0.17763$
- $78.525 + 36.4$
- $78.575 + 36.4$
- $0.3060 \times 50$
- $\frac{0.0000570}{0.00061}$
- $\frac{82.0}{41}$
- $\frac{3.65}{15.36}$
- $12.5 \times 0.0023 \times 0.1000$
- $\frac{0.030}{88.345}$
- $\frac{100}{3.0}$
- $2.4 - 12.93$
- $2.000 \times 55.0$
- $0.12 + 23.687$
- $100 + 1.5$
- $\frac{15}{150}$
- $\frac{7500}{0.8}$
- $\frac{500}{20}$
- $\frac{99}{0.0200}$
- $1780 + 27 + 0.89$
- $\frac{0.400}{0.25}$
- $102 - 8.07$
- $55 \times 3.780$
- $\frac{0.427}{0.030}$
- $3400 \times 1.850$
- $155.37 - 155.10$
- $0.0045 \times 0.008$

1. 143 g
2. 0.00740 cm
3. 8.750 × 10<sup>8</sup> mg
4. 12.17°C
5. 10800 m
6. 5.0 dm
7. 98.5 L
8. 0.000763 cg
9. 57.1 m
10. 12.2°C
11. 7.50 × 10<sup>4</sup> mm
12. 1760 ml
13. 7.00 × 10<sup>4</sup> kg
14. 0.0500 L
15. 1780 g
16. 38 (2sf)
17. 0.0034 (2sf)
18. 800 » 8.0 × 10<sup>2</sup> (2sf)
19. 322000 (3sf)
20. 4.4 (10<sup>th</sup>s place)
21. 114.9 (10<sup>th</sup>s place)
22. 115.0 (10<sup>th</sup>s place)
23. 20 (1sf)
24. 0.093 (2sf)
25. 2.0 (2 sf)
26. 0.238 (3 sf)
27. 0.0029 (2 sf)
28. 0.00034 (2 sf)
29. 30 (1sf)
30. -10.5 (10<sup>th</sup>s place)
31. 1.10 × 10<sup>2</sup> (3sf)
32. 23.81 (100<sup>th</sup>s place)
33. 100 (100<sup>'s</sup> place)
34. 0.10 (2sf)
35. 9000 (1 sf)
36. 20 or 30 (round up or down) (1 sf)
37. 5000 » 5.0 × 10<sup>3</sup> (2 sf)
38. 1810 (10<sup>'s</sup> place)
39. 1.6 (2 sf)
40. 94 (1<sup>'s</sup> place)
41. 210 (2sf)
42. 14 (2sf)
43. 6300 (2sf)
44. 0.27 (100<sup>th</sup>s place)
45. 0.00004 (1sf)