

Significant Figures Worksheet

Name: _____ Date: _____ Period: _____

Determine the number of significant figures in each of the following numbers.

- | | |
|---------------------------|---------------------------|
| 1. 5.432 g | 11. 2500 cm |
| 2. 40.319 g | 12. 2500.0 cm |
| 3. 145 cm ³ | 13. 1.04×10^{14} |
| 4. 0.189 lb | 14. 3.58×10^{14} |
| 5. 429.3 g | 15. 48.57193 oz |
| 6. 429.30 g | 16. 8365.6 g |
| 7. 2873.0 cm ³ | 17. 0.002300 mg |
| 8. 99.9 mL | 18. 7.500×10^8 |
| 9. 0.000235 g | 19. 3.92×10^{-4} |
| 10. 144 lb | 20. 1.000×10^3 |

Add the following measurements and record the answer with the appropriate number of significant figures.

21. $12 \text{ cm} + 0.031 \text{ cm} + 7.959 \text{ cm} =$
22. $0.085 \text{ cm} + 0.062 \text{ cm} =$
23. $3.410 \text{ g} + 3.912 \text{ g} + 7.0518 \text{ g} + 0.00013 \text{ g} =$
24. $30.5 \text{ g} + 16.82 \text{ g} + 410.07 \text{ g} + 85.219 \text{ g} =$
25. $143.0 \text{ cm} + 289.25 \text{ cm} + 68.45 \text{ cm} + 6.00 \text{ cm} =$

Subtract the following measurements and record the answer with the appropriate number of significant figures.

26. $41.025 \text{ cm} - 23.28 \text{ cm} =$

27. $289 \text{ g} - 43.7 \text{ g} =$

28. $145.63 \text{ mL} - 28.9 \text{ mL} =$

29. $62.47 \text{ g} - 39.9 \text{ g} =$

30. $40.0008 \text{ mL} - 29.0941 \text{ mL} =$

Multiply the following measurements and record the answer with the appropriate number of significant figures.

31. $2.89 \text{ cm} \times 4.01 \text{ cm} =$

32. $17.3 \text{ cm} \times 6.2 \text{ cm} =$

33. $3.08 \text{ m} \times 1.2 \text{ m} =$

34. $5.00 \text{ mm} \times 7.3216 \text{ mm} =$

35. $20.8 \text{ dm} \times 123.1 \text{ dm} =$

Divide the following measurements and record the answer with the appropriate number of significant figures.

36. $8.071 \text{ cm}^2 \div 4.216 \text{ cm} =$

37. $109.3758 \text{ m}^2 \div 5.813 \text{ m} =$

38. $24,789.4 \text{ km}^2 \div 43.5 \text{ km} =$

39. $6.058 \text{ mm}^2 \div 0.85 \text{ mm} =$

40. $4.819 \text{ cm}^2 \div 9.852 \text{ cm} =$