

## Chapter 2 rev 5

*Perform the following operations and state the answer to the correct number of S.F.'s*

1.  $45.34 \text{ g} + 7.7 \text{ g} =$
2.  $45.34 \text{ cd} \times 7.7 \text{ cd} =$
3.  $65 \text{ m} + 4.3 \text{ m} + .680 \text{ m} =$
4.  $93,000,999 \text{ mi} / 4.1 \text{ min.} =$
5.  $6.755 \text{ km} - 4.86 \text{ km} =$
6.  $8.000 \text{ g} / 1.2 \text{ ml}$
7.  $9.81 \text{ m/s} / .001 \text{ m/s} =$
8.  $77 \text{ ml} - 18 \text{ ml}$

*List the number of S.F.'s in each measurement*

9.  $93,000,000 \text{ mi} =$
10.  $.0001 \text{ m} =$
11.  $0.0002 \text{ ml} =$
12.  $9.81 \text{ m/s}^2 =$
13.  $8.9 \times 10^3 \text{ km} =$
14.  $1,550 \text{ kg} =$

*Perform each operation:*

15. Area of a circle 75.4 m in diameter?
16. Volume of a box 0.85 m by 1.2 m by 0.60 m?
17. Volume of a ball 0.645 m in radius

*State the absolute and relative error of each example*

18. You measure the acceleration to be  $9.72 \text{ m/s}^2$ . The accepted value is  $9.81 \text{ m/s}^2$ .

*Convert the following as indicated*

19.  $6371 \text{ ml} =$  \_\_\_\_\_  $kl$  \_\_\_\_\_  $cl$  \_\_\_\_\_  $MI$
20.  $0.0637 \text{ kg} =$  \_\_\_\_\_  $cg$  \_\_\_\_\_  $ng$  \_\_\_\_\_  $Gg$

*Round to the stated number of S.F.'s*

21.  $1.503 \text{ g} =$  \_\_\_\_\_ (2)
22.  $0.004632765 \text{ ml}$  \_\_\_\_\_ (4)
23.  $163,014 \text{ kg} =$  \_\_\_\_\_ (4)
24.  $14,370 \text{ g}$  \_\_\_\_\_ (2)