Planet Holloway websheet 1.1
Physics Chapter 1
You may print this out and write on it or work on your own paper.

Metric Conversions.

1. 43.2 dg = _____ kg
2. 0.007 kL = _____ mL
3. 13.1 cm = _____ mm
4. 56 s = _____ ns
5. 2.7 pm = _____ μm

6. 0.0090 kg = _____ g
7. 23 mg = _____ Gg
8. 68.4 Gm = _____ cm
9. 47 ns = _____ ms
10. 40,000 L = _____ kL

Significant Figures

How many significant figures does each number have?

11. 20,000
12. 2.0
13. 7.012
14. 503
15. 0.00000756

Give the correct answer using significant figures.

16. 2.00 x 413 = _____
17. 2.000 x 3002 = _____
18. 0.04 x 211 = _____
19. 19 + 23.675 + 0.0004593 = _____
20. 321.4 + 0.0089 + 672 + 1.0823 + 0.003 = _____

Trigonometry
Solve.

21. A 5 ft ladder leans against a wall with the top of the ladder 4 ft above the ground. How far is the ladder from the wall?

22. An 8 in pencil is held at an angle so that is casts a 3 in shadow on the table from a directly overhead light. What angle is the pencil making with the table?

23. A woman walks forward 22 meters, then turns 90 degrees to the right and walks 64 meters. How far is the woman from her starting point?

24. A right triangle measures 40 cm across one side and 17 cm across another side. What is the length of the third side?

25. A 1.2 meter pendulum is held at 35 degrees right of center. How far is the bob (the end of the pendulum) vertically from its original position?