**Significant Figures and Standard Form**

1. Express the following in standard form:
2. The mass of the Apollo spacecraft, 42 000 kg.
3. The speed of a satellite orbiting Earth, 7 850 m.s-1.
4. The mass of a postage stamp, 0.00002 kg.
5. The half-life of an isotope of actinium, 0.00018 s.
6. The diameter of an atom, 0.000 000 000 2 m.
7. How many significant figures are in each of the following?
8. 125
9. 0.013
10. 1007
11. 25.10
12. 3700
13. What is the order of magnitude for each of the following?
14. 4 x 107
15. 2 x 10-7
16. 3.5 x 105
17. 9 x 104
18. 9 x 10-2
19. Calculate the following and express your answer in standard form:
20. (2.3 x 10-6) x (3.2 x 105)
21. (3.74 x 10-9) / (1.23 x 10-11)
22. (2.57 x 10-6) + (3.42 x 10-5)
23. (5 x 10-2) + (7 x 103)
24. Calculate the area of a square with sides 3.2 m long.
25. Find the volume of a rectangular block 0.32 m by 1.35 cm by 0.1 cm.
26. Add the following numbers: 2.35 cm, 6.72 m, 14.2 m.
27. Calculate the following:
28. 8.9356/5.6
29. 3 x 107 / 2 x 10-3
30. (4 x 104)2

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