1. Reciprocals

1. Use reciprocal, square and square root tables to evaluate, to 4 significant figures, the expression. $\sqrt{\frac{1}{24.56} + 4.346^2}$ (3 mks)

1. Use reciprocal table to evaluate giving your answer to three significant figures.
$\frac{10}{0.834} - \frac{3}{129.64}$

2. Find the reciprocals of the numbers 807 and 0.0591;
Hence evaluate $\frac{5}{807} + \frac{4}{0.0591}$

3. Use reciprocal tables to find the value of:
$\frac{1}{3}\left\{\frac{2}{0.6638} + \frac{5}{0.833}\right\}$

4. Find without using a calculator, the value of :
$$\frac{12\sqrt{0.0625 - 12.4 \div 0.4 \times 3}}{{}^{1}/_{8} \text{ of } 2.56 + 8.68}$$

5. Use tables of cubes, cube roots and reciprocal to find the value of:-
$$\frac{4}{(8.68)^3} + \left[\frac{5}{34.46}\right]^{1/3}$$

6. Determine the value of **a** for which $\frac{1}{127} + \frac{1}{11.5} = \frac{1}{a}$ Use mathematical tables only

7. Use tables of squares, square roots and reciprocals only to find the value of **x** correct to 4 significant figures: $\mathbf{x} = \sqrt{\frac{1}{3.593^2} + \frac{2}{0.526}}$

8. Use reciprocal tables to find the value of ;
$$\frac{1}{3}\left\{\frac{2}{0.6638} + \frac{5}{0.833}\right\}$$

9. Use tables of reciprocals only to work out;
$\frac{3}{0.6735} + \frac{13}{0.156}$

10. Using tables of squares, cube roots and reciprocals find the value of **x**.
$\frac{1}{x} = \frac{1}{0.002593^{1/3}} - \frac{1}{1.28^2}$