



PROBLEMS AND SOLUTIONS - INTRODUCTION TO EXPONENTS AND ROOTS
Prepared by Ingrid Stewart, Ph.D., College of Southern Nevada
Please Send Questions and Comments to ingrid.stewart@csn.edu. Thank you!

YOU MUST BE ABLE TO DO THE FOLLOWING PROBLEMS WITHOUT A CALCULATOR!

The solutions are listed below the problem set!

Problem 1:

Evaluate 10^3 .

Problem 2:

Evaluate 2^5 .

Problem 3:

Evaluate 3.4^2 .

Problem 4:

Evaluate $5,982^0$.

Problem 5:

Evaluate 1^{23} .

Problem 6:

Evaluate 0^{41} .

Problem 7:

Evaluate $\left(\frac{1}{8}\right)^2$.

Problem 8:

Evaluate $\left(\frac{2}{5}\right)^3$.

Problem 9:

Evaluate $\left(\frac{1}{3}\right)^0$.

Problem 10:

Evaluate $\sqrt{1}$.

Problem 11:

Evaluate $\sqrt{0}$.

Problem 12:

Evaluate $\sqrt{36}$.

Problem 13:

Evaluate $\sqrt{100}$.

Problem 14:

Evaluate $\sqrt{81}$.

Problem 15:

Evaluate $\sqrt{400}$.

Problem 16:

Evaluate $\sqrt{0.64}$.

Problem 17:

Considering perfect squares, find two successive decimal numbers between which the value of $\sqrt{0.69}$ is located.

Problem 18:

Considering perfect squares, find two successive decimal numbers between which the value of $\sqrt{0.55}$ is located.



SOLUTIONS

You can find detailed solutions below the link for this problem set!

1. 1,000	2. 32	3. 11.56
4. 1	5. 1	6. 0
7. $1/64$	8. $8/125$	9. 1
10. 1	11. 0	12. 6
13. 10	14. 9	15. 20
16. 0.8	17. between 0.8 and 0.9	18. between 0.7 and 0.8