

In this lab you will learn the Maple syntax for basic number operations.

From the Math 100 index screen, click on “Introduction to Maple.” Read the text explaining the commands. Type and execute the commands as you go. Continue until you reach the end of the sheet. Be sure to execute all commands in sequence. At the end, you may start on the last command line to type the commands that answer the following questions. Record the commands below. Be sure to include the semicolon required at the end of each command. Maple follows the standard order of operations. For your answers, use parentheses only when absolutely required.

Problem	Maple Command	Answer
1. Add $\frac{4}{37} + \frac{7}{15}$ (do not use unnecessary parentheses)	> _____	$\frac{319}{555}$
2. Find 7^6	> _____	117649
3. Compute $4^2 \div 2^4$ (do not use unnecessary parentheses)	> _____	1
4. Find $\sqrt{1331}$ (by using the square root command rather than <i>root</i> or \wedge)	> _____	$11\sqrt{11}$
5. Find $\sqrt[3]{1331}$ (without using \wedge)	> _____	11
6. Find $\tan(\pi/3)$	> _____	$\sqrt{3}$
7. Approximate $\pi/4$	> _____	0.7853981635
8. Approximate $\sin(2/3)$	> _____	0.6183698031
9. Compute $\frac{3}{3 - \frac{3}{3+3}}$ (do not use unnecessary parentheses)	> _____	$\frac{6}{5}$
10. Compute $14 + \frac{33 \cdot 79}{6 - 13 \cdot 21}$ (do not use unnecessary parentheses)	> _____	$\frac{377}{89}$