



Lesson #3

The Math Menu

The keypad on a Ti-84 graphing calculator is not large enough to contain buttons for every function that the calculator has to offer. The Math Menu contains numerous functions that can be entered into the home screen for use.

To access the Math Menu, press . The Math Menu screen immediately appears. Notice at the top of the screen MATH appears along side NUM, CPX, and PRB. NUM (Number Menu), CPX (Complex Menu), and PRB (Probability

Menu) are three other menus that can be accessed by pressing . To

access these menus use the  or  keys to highlight the menu desired. To choose a function from any menu, press the number that is to the left

of the function or arrow down to the function and press .

Set 1 - Convert each decimal into a fraction. First, enter the decimal value. Then choose " \rightarrow Frac" from the Math Menu and press enter.

LP#1 0.15625=	0.09375=	0.171875=	0.25=
LP#2 0.03125=	0.109375=	0.1875=	0.265625=
R#1 0.046875=	0.125=	0.203125=	0.28125=
R#2 .0625=	0.140625=	0.21875=	0.296875=
R#3 0.78125=	0.15625=	0.234375=	0.3125=

Set 2 - Evaluate each absolute value expression. First, choose the “abs(” from the Number Menu. Then, enter the desired value, close the parenthesis, and press enter.

LP#1 $ -8 =$	$ 13 =$	$ -9 \div 3 + 2 =$	$ 13 - 10 \cdot (-2) =$
LP#2 $ -11 + -5 =$	$ 42 - -82 =$	$ 10 \div 5 - 9 =$	$ 50 - 7(7) - 9 =$
R#1 $ -20 =$	$ 11 - 4 =$	$ -20 + 3(-6) =$	$ 20 + 15(-2) + 20 =$
R#2 $ 18 - -8 =$	$ -19 + 7 =$	$ 15 - 20 + 2(1) =$	$ 20(-3) + 40 \div 2 =$
R#3 $ 4 + -10 - 2 -3 =$	$ -30 - 18 =$	$ -17 - 18 - 3(8) =$	$ 13 - 10(5 + 2) - 6 =$

Set 3 Evaluate each expression. First, enter the number in front of the expression. Then, choose ${}_n P_r$ or ${}_n C_r$ from the Probability Menu, enter the second number, and press enter.

LP#1 ${}_6 P_3 =$	${}_8 P_2 =$	${}_6 C_3 =$	${}_8 C_2 =$
LP#2 ${}_{10} C_4 + {}_7 C_3 =$	${}_{10} P_4 + {}_7 P_3 =$	${}_{13} P_5 - {}_{13} C_5 =$	${}_{13} C_5 - {}_{13} P_5 =$
R#1 ${}_{20} P_4 =$	${}_{14} C_6 =$	${}_{18} C_5 + {}_7 C_6 =$	${}_9 C_7 - {}_9 P_7 =$
R#2 ${}_{100} C_{98} =$	${}_8 P_3 + {}_{11} P_4 =$	${}_{16} C_5 - {}_{13} C_5 =$	${}_{11} P_2 + {}_{15} C_3 =$
R#3 ${}_8 P_7 =$	${}_8 C_7 =$	${}_{100} P_1 + {}_{50} P_1 =$	${}_5 P_3 - {}_5 C_5 =$