

THE MATH LOCUS



Published periodically by the Mathematics Department at
Kirtland Community College, Roscommon, Mich.
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About us

The Tutoring and Student Success centers, under the leadership of Kate Jakobson, are great examples of Service Learning at Kirtland Community College. Nick Holton, a math instructor at KCC, is the college's Service Learning coordinator and, as such, he represents KCC all over the United States.

At KCC you can find many of all ages who mentor, help and tutor.

Geneve Warren has taught at Kirtland for 26 years and retired; but she still is tutoring, especially on the topic of English as a second language. **Caryn Schutte** is the lead English tutor. She enjoys spending time with her grandchildren. She also enjoys, camping, fishing, reading and sign language.

Heidi Sura is one of the Writing Center's specialists and is also

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Spotlight on nursing

From the LOCUS editor

The Spring 2008 edition of *The Math Locus* featured the Mathematics Department as an example of Kirtland at its Best. This issue focuses on the Health Careers Department.

On Sept. 12, 2008, nearly 200 employees, students, faculty members and friends of Kirtland Community College met in Houghton Lake at the Comfort Suites for a Summit Meeting: "Strategic Vision of the Future." At each table sat a mix of faculty, staff, community members and administration personnel. Sandy

Woods was at the table I happened to be sitting at. She is a nurse at Mercy Hospital in Grayling and is responsible for case management and discharge planning. She is also on the committee for the Kirtland Foundation.

I mentioned to her that this issue of *The Math Locus* was featuring the nursing profession. We talked about the connection between math and health careers and her eyes just lit up. Sandy said that math was of great value, especially in nursing. There are the calculations of doses,

drip rates, IVs, etc. Numbers are used to monitor blood pressure, breathing rates and other statistics. The study of mathematics trains a person to pay attention to details. For a nurse, that could be the color, disposition, mood of the patient. Sandy Woods gave positive testimony for the critical need and connection of health careers and mathematics.

Please see the article on page 4 of this issue of *The Math Locus* about women in mathematics, featuring Florence Nightingale.

Meet the health careers staff of Kirtland

WENDY HILLMAN

I've been a nurse since the mid-70s. This fact still amazes me as I looked at my nursing faculty back then and thought they were old. Thirty-plus years later I still love my profession and don't feel old. Nursing has given me so many experiences and allowed me to touch the lives of so many patients and families and, for half my career, nursing students like you.

I'm proud of who I am and what I have to offer you, the nursing student. When I'm not working, I love to read, scrapbook, and enjoy a day full of sunshine. My pride and joy are my husband of 34 years, Curt, daughter, Karie, and son, Michael.

NANCY PAVELEK

My husband, daughter and I moved from the northeast suburbs of Detroit to Lupton about 27 years ago. We were a young family with the ideals of getting back to nature and out of the city. Time passed, our son was born, I owned a small fabric store in Rose City, worked for the local community mental health agency for 12 years and finally decided to pursue my dream of becoming an RN.

In 1992 I registered at KCC for my first class, graduated from the RN program in 1995 and then in 2000 decided to earn my BSN at the University of Michigan. Upon graduation from U of M I was offered a full-time teaching position with the

nursing program with the promise of obtaining my MSN in four years. Back to school, this time a fully online program through Michigan State University. I taught at KCC full-time and completed my degree. Who knew that this would all take place? What a wild ride it was. Let me add, I was a Wolverine in Sparty clothing – I never converted to the “dark side.” GO BLUE!

My husband and I maintain a hobby farm. I raised sheep for 24 years and spin my own yarn. I love playing softball and volleyball. This is the first year since being a freshman in high school that I have not played organized softball (old injury don't you know). We have four beautiful and brilliant grandchildren and I love my job at KCC. Teaching is an honor for me. I learn something every single day from my students and am grateful for that.

JACQUELYN WARREN SMITH

Hello and welcome to an exciting new year. I am Jacquelyn Warren Smith, a nursing instructor here at Kirtland. Just a little about myself – I graduated from Northern Michigan University with a BSN. I got into nursing by accident! I had the

opportunity in my senior year of high school to work as a nursing assistant through the co-op program. It was a program that attempted to match students with career choices. I had told my co-op teacher that I was going to be a social worker so he thought that placing me in the hospital would be a good choice because nursing and social work were both “helping professions.”

After working two weeks in the hospital I knew I wanted to become a nurse! I have never regretted that decision a day in my life.

Fast forward — after four arduous years, I graduated from Northern Michigan University with a BSN and decided to stay in Marquette and worked at the regional medical center. The first 1-3 years out of nursing school were exciting because I was learning so much. Nothing replaces experience! My love for the profession grew. I eventually attended Wayne State University for a masters of science degree in nursing, majored in advanced medical-surgical nursing and minored in nursing education.

I have taught in LPN, ADN, BSN and MSN programs at several colleges and universities in Michigan. In addition to my teaching role I have participated in nursing

See **HEALTH STAFF**, page 3

“Thirty-plus years later I still love my profession and don't feel old.”
Wendy Hillman

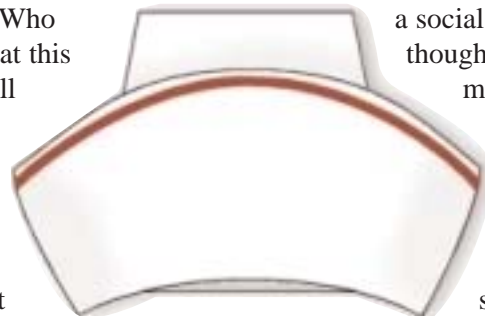
“Teaching is an honor for me. I learn something every single day from my students and am grateful for that.”
Nancy Pavelek

“One thing I would tell students is that opportunities in nursing are endless ... The diverse opportunities are only limited by one's specific professional aspirations.”
Jacquelyn Warren Smith

“I ... enjoy my job immensely because I love helping students and seeing them succeed.”
Deb Near

“I feel honored to have a part in preparing the nurses of the next generation who will care for the families in my community, as I have done.”
Cynde Kochensparger

“I have known since I was approximately 10 years old that I wanted to be a nurse.”
MaryAnn Frick



Health Staff

research. At one time in my life I wanted to do research and add to the body of evidence that drives our practice today. However, those opportunities are found in large research universities, and my family moved to beautiful Northern Michigan.

But where one door closes another one opens and I was offered an opportunity to return to KCC where I had worked as a part-time clinical instructor years earlier.

About 13 years ago I attended Michigan State University and completed a post-master's in their Family Nurse Practitioner program. I have a primary care practice where I plan and manage the care of patients with acute and chronic health problems. This wonderful opportunity keeps me grounded in the "real world" and drives me to stay abreast of the changes in practice that I pass on to my students in their nursing courses.

One thing I would tell students is that opportunities in nursing are endless. A nurse can work with a particular condition; a particular age group or gender; in primary care to tertiary care; and education or administration.

There is an area for everyone! The diverse opportunities are only limited by one's specific professional aspirations.

Good luck to all the students at KCC this year!

DEB NEAR

I am the Health Careers Support Specialist and enjoy my job immensely because I love helping students and seeing them succeed. I graduated from Kirtland with an honors degree in administrative assistant and accounting. Then I went on to complete my BA at Spring Arbor University.

I have been employed here for more than 10 years and find Kirtland a great place to work. I am a member of the Kirtland Ms. Club, I volunteer for the Kirtland's Warbler Festival and for all KCC Firebirds games, and am active in my church.

I enjoy the outdoors by camping, fishing, boating, snowmobiling and gardening. Other hobbies include photography, scrap booking, needlework, arts and crafts and baking. I enjoy spending time with my husband, eight children, and 13 grandchildren. I also raise hairless Chinese-crested and shih-tzu puppies and sugar gliders.

CYNDE KOCHENSPARGER

As far back as I can remember, I wanted to be a nurse. I was very fortunate to have the support of my parents and was able to attend Madonna College as a nursing student after high school.

Like many new nurses, I tried different nursing positions looking for my place in the profession. Three years

after graduation, I found it in community health.

Everything I was looking for was there: Health promotion, disease prevention, autonomy in practice, client and community education, and opportunities for advancement. I was able to utilize the many skills I had learned in my nursing program to benefit the families in my community.

I began my career as a staff nurse visiting clients in their homes in Detroit and retired from my supervisory position in nursing from a Northern Michigan health department in 2005.

But it wasn't over yet! As the Nursing Clinical Coordinator at KCC, I am so pleased to be able to welcome the new nursing students, watch them grow, and then welcome them to this wonderful profession! I feel honored to have a part in preparing the nurses of the next generation who will care for the families in my community, as I have done.

My husband, Gary is retired from General Motors and spends his spare time as a substitute school bus driver and an auctioneer. We have a daughter, Amy, and two sons, Bill and Eric. Best of all we have a three-year-old granddaughter, Ellery. We enjoy spending time traveling, camping, visiting the kids, bicycling, boating, attending sporting events and auctions.

Be sure to wave if you see us riding recumbent bikes on the roads of Northern Michigan!

MARYANN FRICK

Most college students change their majors several times before they decide what profession is right for them. Fortunately I have known since I was approximately 10 years old that I wanted to be a nurse. However, I had no idea the diversity and many opportunities that it would provide.

I have had the opportunity of working in several different areas in nursing including medical, surgical, emergency room, office nursing, home care, discharge planning, in advanced practice as a family nurse practitioner and nursing education.

I have been employed at Kirtland for 10 years in part-time and full-time capacities. I enjoy watching the students evolve professionally and personally.

SUE OWENS

Sue has been a full-time faculty member at Kirtland Community College for nine years. Her nursing background is in clinical nursing. Currently she is working on a certificate in nursing education.

Sue enjoys facilitating students in nursing education and looks forward to watching KCC graduates engage in the healthcare workforce.



Mathematical Education in the Life of Florence Nightingale

Written by **Cynthia Audain**

Class of 1998

Agnes Scott College

Florence Nightingale is most remembered as a pioneer of nursing and a reformer of hospital sanitation methods. For most of her ninety years, Nightingale pushed for reform of the British military health-care system and with that the profession of nursing started to gain the respect it deserved.

Unknown to many, however, was her use of new techniques of statistical analysis, such as during the Crimean War when she plotted the incidence of preventable deaths in the military. She developed the “polar-area diagram” to dramatize the needless deaths caused by unsanitary conditions and the need for reform.

With her analysis, Florence Nightingale revolutionized the idea that social phenomena could be objectively measured and subjected to mathematical analysis. She was an innovator in the collection, tabulation, interpretation, and graphical display of descriptive statistics.

Florence Nightingale’s two greatest life achievements—pioneering of nursing and the



May 12, 1820 - Aug. 13, 1910

reform of hospitals—were amazing considering that most Victorian women of her age group did not attend universities or pursue professional careers. It was her father, William Nightingale, who believed women, especially his children, should get an education. So Nightingale and her sister learned Italian, Latin, Greek, history, and mathematics. She in particular received excellent early preparation in mathematics from her father and aunt, and was also tutored in mathematics by James Sylvester. In

improving city and military hospitals. Nightingale’s calculations of the mortality rate showed that with an improvement of sanitary methods, deaths would decrease. In February, 1855, the mortality rate at the hospital was 42.7 percent of the cases treated (Cohen 131). When Nightingale’s sanitary reform was implemented, the mortality rate declined.

Nightingale took her statistical data and represented them graphically. She invented polar-area charts, where the statistic being represented

1854, after a year as an unpaid superintendent of a London “establishment for gentlewomen during illness,” the Secretary of War, Sidney Herbert, recruited Nightingale and 38 nurses for service in Scutari during the Crimean War.

During Nightingale’s time at Scutari, she collected data and systematized record-keeping practices. Nightingale was able to use the data as a tool for

is proportional to the area of a wedge in a circular diagram (Cohen 133).

As Nightingale demonstrated, statistics provided an organized way of learning and lead to improvements in medical and surgical practices. She also developed a Model Hospital Statistical Form for hospitals to collect and generate consistent data and statistics. She became a Fellow of the Royal Statistical Society in 1858 and an honorary member of the American Statistical Association in 1874. Karl Pearson acknowledged Nightingale as a “prophetess” in the development of applied statistics.

Read about the mathematical education in the life of Florence Nightingale in an article by Sally Lipsey that appeared in the Newsletter of the Association for Women in Mathematics.

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<http://www.agnesscott.edu/LRiddle/WOMEN/nitegale>

And the winners are ...

Kirtland Community College would like to congratulate those students who were the top five Kirtland contestants in the 2007 mathematics contest sponsored by the Michigan Mathematical Association of Two-Year Colleges.

They are Dustin Urbach, Jonathon Hensley, Amber Cain, Kory Banning and Dan Spencer.

For further details and futures contests, see Doug Mace.

Classifieds

TUTORS AND TUTEES are needed for mathematics. Apply at the Kirtland Tutoring Center (INS 20).

October 2008

SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY

Pumpkin Patch Helpers:	Brian Gomez Dan Savage Whitney Barnes Melinda Bondiette	Kate Jakobson Geneene Warren Helen Scheer Ja	(100) ⁰	$2(\sin^2 + \cos^2)$	3×0 where X equals 4000	Number of equal sides in a square
Number of sides in a pentagon	Number of minutes in an hour divided by 10	Number of days in a week	$\frac{3}{4/8 + 40}$ 6	Number of lives per cat	10^5 <hr/> 10^4	Movie: "Ocean's ??" or 1011 (binary)
$\frac{3}{(16)}$	Baker's Dozen	Supplementary angle of 166 degrees	X V	Number of ounces in a pound	The number of hours per day for drop-in tutoring (8:30 – 4:30) plus nine	One and one half dozen
A prime number greater than 17 and less than 20.	$3^2 + 3 \cdot 23 + 2^5 + X = 130$	Age of majority	21.96 rounded to the tenth place	Complementary angle of 67 degrees	What is the minimum point of the graph: $Y = X^2 + (4)(6)$	$\log_5 X = 2$
Two Baker's Dozens	3^3	$(25+36 \cdot 28)^0 + 27$	Supplementary angle of 151 degrees	"X" is the number of days in April, June, Sept. and Nov.	Happy Halloween " Boo"	

LOCUS OF FUN

Volker Runde, Math Jokes
(<http://math.ualberta.ca/~runde/jokes.html>)

I haven't invented these jokes – I just collect them.

Teacher: What is $2k + k$?
Student: 3000!

Q: Why do you rarely find mathematicians spending time at the beach?

A: Because they have sine and cosine to get a tan and don't need the sun!

Teacher: "Who can tell me what 7 times 6 is?"

Student: "It's 42!"

Teacher: "Very good! And who can tell me what 6 times 7 is?"

Same student: "It's 24!"

A math student is pestered by a classmate who wants to copy his homework assignment. The student hesitates,

not only because he thinks it's wrong, but also because he doesn't want to be sanctioned for aiding and abetting.

His classmate calms him down: "Nobody will be able to trace my homework to you: I'll be changing the names of all the constants and variables: a to b , x to y , and so on."

Not quite convinced, but eager to be left alone, the student hands his completed assignment to the classmate for copying.

After the deadline, the student asks: "Did you *really* change the names of *all* the variables?"

"Sure!" the classmate replies. "When you called a function f , I called it g ; when you called a variable x , I renamed it to y ; and when you were writing about the log of $x+1$, I called it the timber of $x+1$..."

A woman in a bar tries to pick up a mathematician. "How old, do you think, am I?" she asks coyly.

"Well – 18 by that fire in your eyes, 19 by that glow on your cheeks, 20 by that radiance of your face, and adding that up is something you can probably do for yourself."

Proof. No cat has eight tails. Since one cat has one more tail than no cat, it must have nine tails.

Q: What do you get if you add two apples and three apples?

A: A high school math problem!

*Trigonometry for farmers:
swine and coswine ...*

Q: What is the difference between a mathematician and a philosopher?

A: The mathematician only needs paper, pencil and a

trash bin for his work – the philosopher can do without the trash bin.

*Life is complex:
it has both real and
imaginary components.*

Q: What is the difference between a Ph.D. in mathematics and a large pizza?

A: A large pizza can feed a family of four.

Three statisticians go hunting.

When they see a rabbit, the first one shoots, missing it on the left.

The second one shoots and misses it on the right.

The third one shouts: "We've hit it!"

Math problems? Call 1-800-[(10x)(13i)²]-[sin(xy)/2.362x].

Q: What is polite and works for the phone company?

A: A deferential operator.

About us

Continued from page 1
the writing across the curriculum coordinator. She likes reading, camping and going to her children's sporting events. She loves to "hang out" with family and friends. **Helen Scheer** is a math instructor and lead mathematics tutor at KCC. She is the publisher of *The Math Locus*. Her hobbies are euchre, walking her collies and enjoying sunsets at Higgins Lake.

Ashley Quillen is the office assistant for the Tutoring Center. She loves spending time with her 5-year-old son. She enjoys read-

ing, singing and music.

Some of the **students who tutor math** are:

- Whitney David is studying for a BSN. She plans to get married in October her then husband leaves for the Navy in January.

- Timothy Davis is married with two children. He likes building and working with wood. He plans to be a math teacher. GREAT! His instructor for MTH 120 was Helen Scheer who says "Welcome."

- Elizabeth Godin also plans a career in nursing. She likes soccer and drawing.

- Jennifer Ferguson plans to obtain an associate's degree in CIS. She likes the outdoors, hunting, fishing, canoeing, dog sledding, etc.

- Melinda Killinger loves to spend time with her two children, Robin and Victoria. They go biking, canoeing, camping, swimming, bowling and "putt-putt" golfing.

- Catherine Lademan enjoys helping students with chemistry and math. She also enjoys being outdoors.

- Heather Reese enjoys spending time with her husband, two children and animals. Her hobby is scrap

booking.

- Joshua Stamply loves to play golf for KCC. He also enjoys hunting, fishing and most sports.

So, you see, people who like and appreciate math and tutoring are very diverse and appreciate many things.

Take time to read the article about the faculty in KCC's **Health Careers Department**. We see many of their students in the Tutoring Center. The registered nurses must earn a B grade in their courses. And that includes math.

PUZZLES To PONDER

HOW TO SOLVE THIS PUZZLE

This type of number fill-in puzzle has become widely popular in the last five years. If you haven't tried it yet, you're in for a treat! Here's how: When you are done with the puzzle, each of the nine boxes that make up the puzzle – each of

which contain nine squares – should be filled with the digits 1 through 9. In addition, all of the nine horizontal rows and nine vertical columns – each of which contain nine squares – should contain the digits 1 through 9. No duplicates or missing digits are allowed, in either the boxes, rows, or columns.

Good luck!

	9				4				3		8
2		8		7		6				9	
	5	3			2			1			
	6	7		2	5			8			4
8				4					7		
1	4					7					9
	8				1				5		2
5		1		6	7	4		9			3
	7	9		5					4		

Believe It or Not ...

- It takes 3,000 cows to supply the NFL with enough leather for a year's supply of footballs.
- The average life span of a major league baseball: 7 pitches.
- $111,111,111 * 111,111,111 = 12,345,678,987,654,321$
- The longest recorded flight of a chicken is 13 seconds.
- The highest point in Pennsylvania is lower than the lowest point in Colorado.
- If you have three quarters, four dimes, and four pennies, you have \$ 1.19. You also have the largest amount of money in coins without being able to make change for a dollar.
- Snails can sleep for three years without eating.
- Months that begin on a Sunday always contain a Friday the 13th.
- The Eisenhower interstate system requires that one mile in every five must be straight. These sections are usable as airstrips in times of war or other emergencies.
- There are 293 ways to make change for a dollar.
- Mathematics is made of 50 percent formulas, 50 percent proofs, and 50 percent imagination.
- An engineer thinks that his equations are an approximation to reality.
A physicist thinks reality is an approximation to his equation.
A mathematician doesn't care.
- Old mathematicians never die; they just lose some of their functions.
- I think, therefore I am. I do not think, therefore I am not.

(cherk@math.utah.edu)

Figure out the letter equivalents for the numbers 0-9 using the divisions offered and come up with the answers to these two puzzles!!

Puzzle 1. $\begin{array}{r} \text{---} \\ 0 \ 1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \end{array}$

$$\begin{array}{r}
 \text{O R N} \\
 \hline
 \text{R C F} \left| \begin{array}{l} \text{R I C S L} \\ \text{R C F} \\ \text{F E S} \\ \text{F C D} \\ \text{E O L} \\ \text{E O R} \\ \text{I} \end{array} \right.
 \end{array}$$

Key:
 $N + E = S$
 $R^3 = D$
 $I = F + 1$
 $N^2 = S$

Puzzle 2. $\begin{array}{r} \text{---} \\ 0 \ 1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \end{array}$

$$\begin{array}{r}
 \text{R T W M} \\
 \hline
 \text{S O} \left| \begin{array}{l} \text{D R E S S} \\ \text{S O} \\ \text{R E E S} \\ \text{U D U} \\ \text{S W S} \\ \text{S R U} \\ \text{E W} \end{array} \right.
 \end{array}$$

Key:
 $A^3 = I$
 $U^3 = O$
 $E^2 = M$
 $S = W + 2$

SOLUTIONS +

7	9	6	1	4	5	3	2	8
2	1	8	7	3	6	4	9	5
4	5	3	9	2	8	1	6	7
9	6	7	2	5	3	8	1	4
8	3	5	4	9	1	2	7	6
1	4	2	8	6	7	5	3	9
6	8	4	3	1	9	7	5	2
5	2	1	6	7	4	9	8	3
3	7	9	5	8	2	6	4	1

Q. What do you get if you divide the circumference of a jack-o-lantern by its diameter?



A. Pumpkin Pi!

The beauty of math

This is absolutely amazing!

Make sure to read the message at the end!

Beauty of Math

- 1 x 8 + 1 = 9
- 12 x 8 + 2 = 98
- 123 x 8 + 3 = 987
- 1234 x 8 + 4 = 9876
- 12345 x 8 + 5 = 98765
- 123456 x 8 + 6 = 987654
- 1234567 x 8 + 7 = 9876543
- 12345678 x 8 + 8 = 98765432
- 123456789 x 8 + 9 = 987654321

- 1 x 9 + 2 = 11
- 12 x 9 + 3 = 111
- 123 x 9 + 4 = 1111
- 1234 x 9 + 5 = 11111
- 12345 x 9 + 6 = 111111
- 123456 x 9 + 7 = 1111111
- 1234567 x 9 + 8 = 11111111
- 12345678 x 9 + 9 = 111111111
- 123456789 x 9 + 10 = 1111111111

- 9 x 9 + 7 = 88
- 98 x 9 + 6 = 888
- 987 x 9 + 5 = 8888
- 9876 x 9 + 4 = 88888
- 98765 x 9 + 3 = 888888
- 987654 x 9 + 2 = 8888888
- 9876543 x 9 + 1 = 88888888
- 98765432 x 9 + 0 = 888888888

Brilliant, isn't it?

And look at this symmetry:

- 1 x 1 = 1
- 11 x 11 = 121
- 111 x 111 = 12321
- 1111 x 1111 = 1234321
- 11111 x 11111 = 123454321
- 111111 x 111111 = 12345654321
- 1111111 x 1111111 = 1234567654321
- 11111111 x 11111111 = 123456787654321
- 111111111 x 111111111 = 12345678987654321

Division Puzzles

Solution 1.
$$\begin{array}{r} \text{C O R N F I E L D S} \\ 0 \ 1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \end{array}$$

Solution 2.
$$\begin{array}{r} \text{T R U E W I S D O M} \\ 0 \ 1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \end{array}$$

Now, take a look at this

From a strictly mathematical viewpoint:

What equals 100%?

What does it mean to give MORE than 100%?

Ever wonder about those people who say they are giving more than 100%?

We have all been in situations where someone wants you to GIVE OVER 100%.

How about ACHIEVING 101%?

What equals 100% in life?

Here's a little mathematical formula that might help answer these questions

If: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

And: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

If: **H-A-R-D-W-O-R-K** equals 8+1+18+4+23+15+18+11 = 98%

And: **K-N-O-W-L-E-D-G-E** equals 11+14+15+23+12+5+4+7+5 = 96%

But: **A-T-T-I-T-U-D-E** equals 1+20+20+9+20+21+4+5 = 100%

THEN, look how far the love of God will take you:

L-O-V-E-O-F-G-O-D equals 12+15+22+5+15+6+7+15+4 = 101%

Therefore, one can conclude with mathematical certainty that:

While Hard Work and Knowledge will get you close, and Attitude will get you there, It's the Love of God that will put you over the top!

It's up to you if you share this with your friends and loved ones just the way we did.

Have a nice day and God bless!

The Math Locus